

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P533420

Luminaire Tested: **GALN-SA8D-750-U-T3R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533420  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8D-750-U-T3R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 54531 lumens  
Efficiency: N/A  
Efficacy: 110.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B5 - U0 - G4

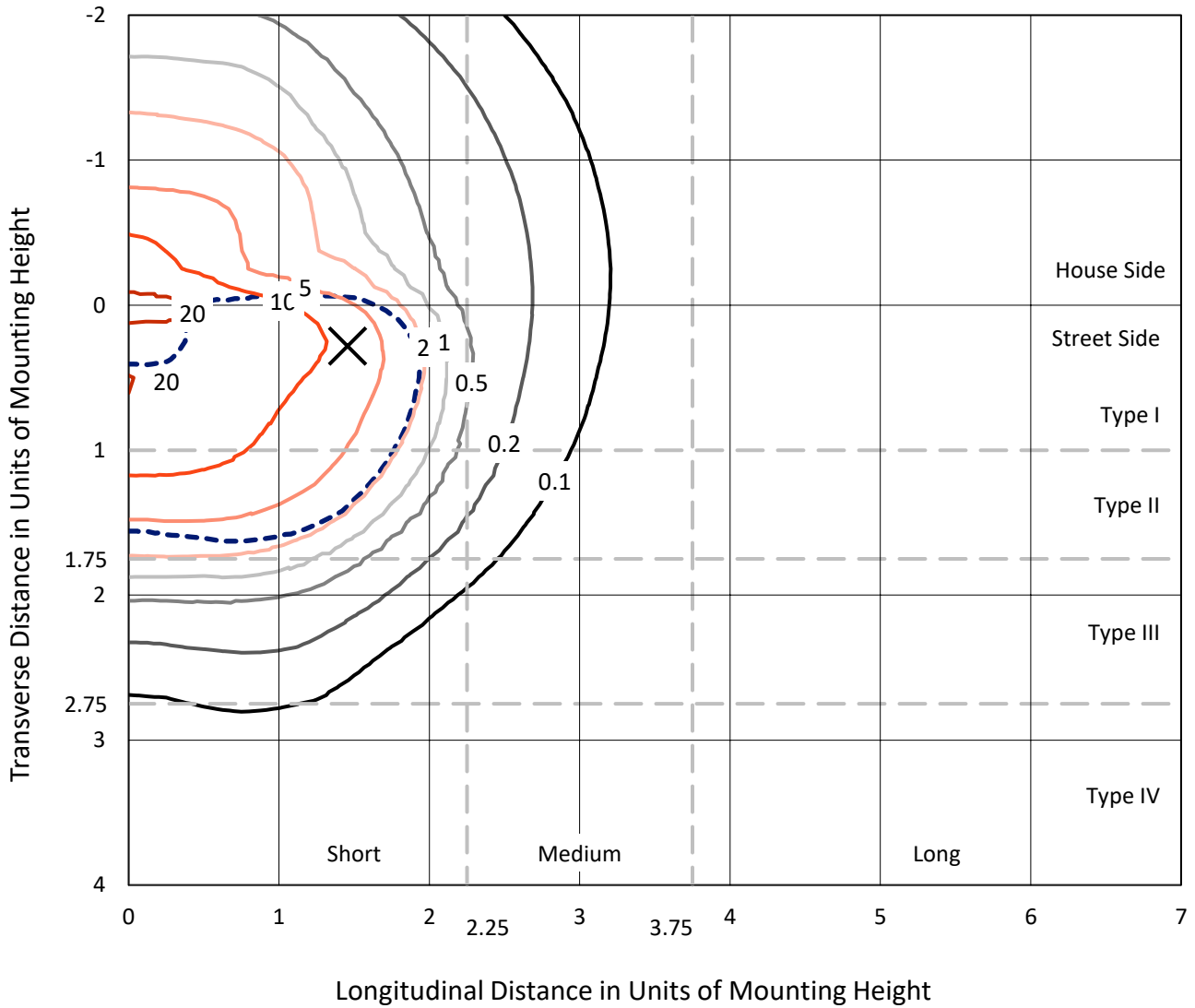
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

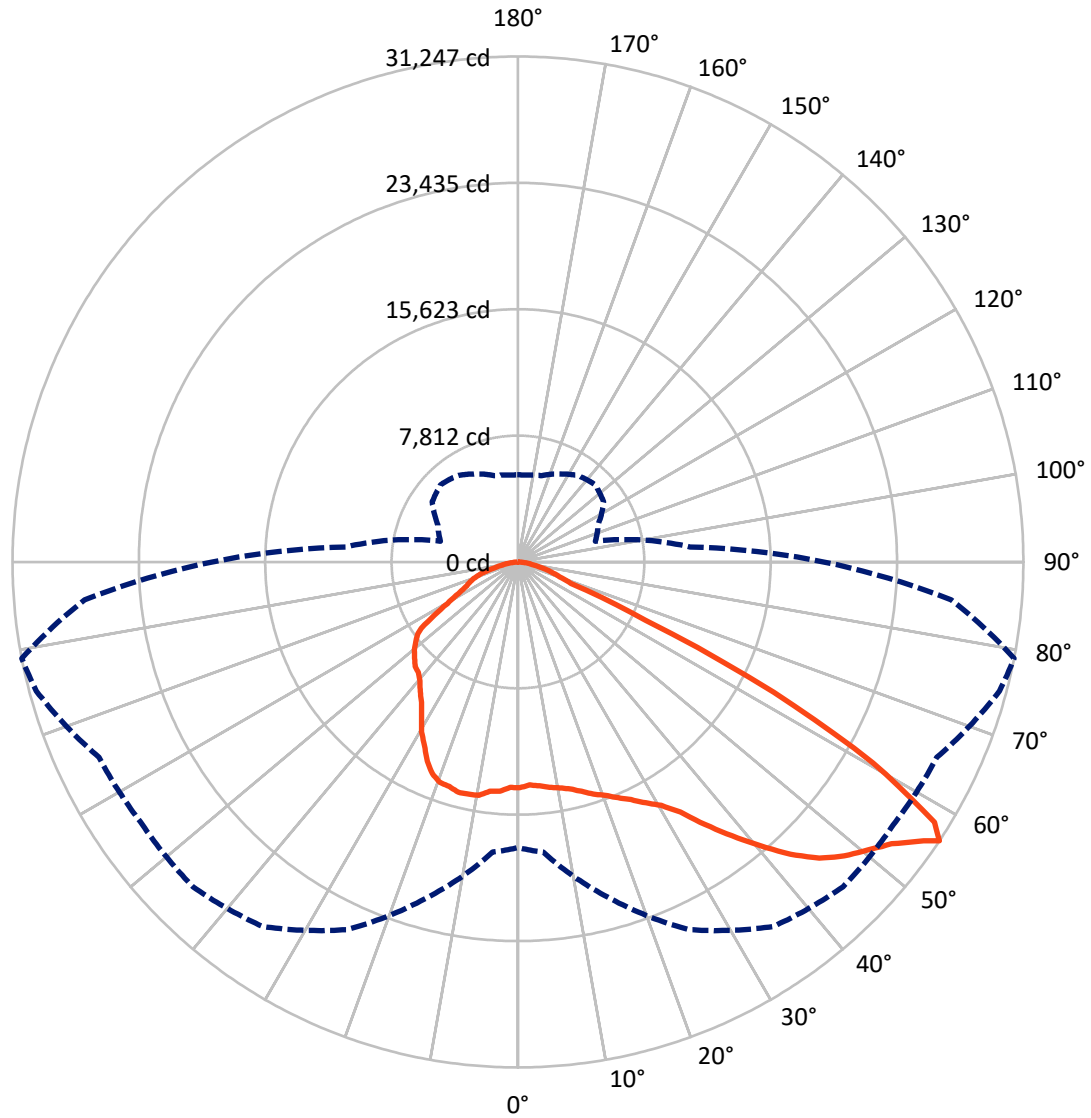
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	16104.2	0.0	16104.2
	% Fixture	29.5	0.0	29.5
<b>Street Side</b>	Lumens	38426.8	0.0	38426.8
	% Fixture	70.5	0.0	70.5
<b>Total</b>	Lumens	54531.0	0.0	54531.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1268.5	2.3
10°-20°	3471.6	6.4
20°-30°	5939.3	10.9
30°-40°	9102.7	16.7
40°-50°	12302.2	22.6
50°-60°	14129.5	25.9
60°-70°	6440.6	11.8
70°-80°	1587.9	2.9
80°-90°	288.6	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	54531.0	100.0
0°-180°	54531.0	100.0

**Coefficient of Utilization**



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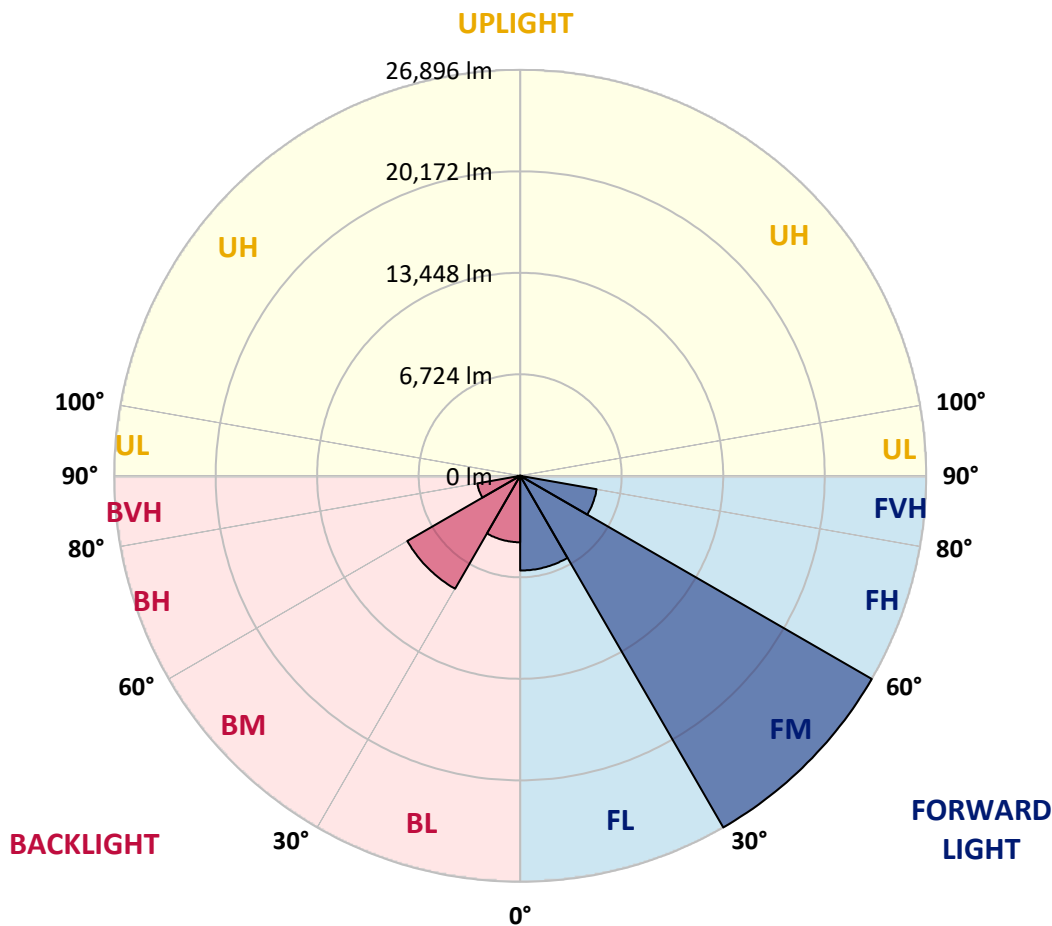
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6274.2	11.5			
FM (30°-60°)	26896.3	49.3			
FH (60°-80°)	5141.0	9.4			G3/7500
FVH (80°-90°)	115.2	0.2			G2/225
BL (0°-30°)	4405.2	8.1	B4/5000		
BM (30°-60°)	8638.1	15.8	B5		
BH (60°-80°)	2887.6	5.3	B4/5000		G4/5000
BVH (80°-90°)	173.4	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	13952.3	13952.3	13952.3	13952.3	13952.3	13952.3	13952.3	13952.3	13952.3	13952.3	13952.3
2.5°	13273.0	13239.1	13320.6	13381.7	13456.5	13551.6	13599.1	13626.3	13864.0	13802.9	13986.3
5°	12987.8	12899.4	12960.6	13008.1	13137.2	13252.7	13381.7	13585.5	13802.9	13898.0	14122.1
7.5°	12736.4	12688.9	12675.3	12709.2	12885.9	13035.3	13259.5	13558.3	13911.6	14067.8	14196.9
10°	12322.1	12254.1	12356.0	12580.2	12627.7	12940.2	13198.3	13626.3	13931.9	14203.7	14584.0
12.5°	12138.7	12070.7	12091.1	12220.2	12553.0	12851.9	13157.6	13639.9	14285.2	14393.9	14903.3
15°	12430.7	12362.8	12383.2	12349.2	12668.5	12824.7	13307.0	13911.6	14529.7	14713.1	15256.5
17.5°	13096.4	13103.2	13014.9	12940.2	12865.5	13198.3	13531.2	14074.6	14624.8	15086.7	15494.3
20°	14366.7	14142.5	13965.9	13544.8	13429.3	13571.9	13993.1	14516.1	15012.0	15392.4	15854.3
22.5°	15344.8	15365.2	15113.9	14421.0	14169.7	14230.8	14590.8	15018.8	15562.2	15833.9	16363.8
25°	16764.5	16621.9	16350.2	15800.0	15236.2	15283.7	15548.6	15935.8	16085.2	16275.4	16852.8
27.5°	18061.9	18102.7	17566.1	17049.8	16350.2	16214.3	16689.8	16757.7	16506.4	16866.4	17063.4
30°	19379.7	19345.8	18992.5	18388.0	17701.9	17729.1	17939.7	17606.8	17260.4	17457.4	17593.2
32.5°	20745.1	20357.9	20344.3	19800.9	19277.8	19026.5	18768.4	18931.4	18394.8	18435.5	18306.5
35°	21838.7	21893.1	21580.6	21193.4	20935.3	20493.7	19787.3	20079.4	19977.5	19929.9	19372.9
37.5°	22633.5	22422.9	22579.1	22450.1	22205.5	21655.3	20921.7	21200.2	21247.7	21478.7	20833.4
40°	23285.6	23197.3	23611.6	23679.6	23509.7	22321.0	21003.2	21831.9	22545.2	23047.8	22280.2
42.5°	23598.0	23788.2	24223.0	24746.0	24365.6	23095.4	21424.4	22314.2	23903.7	24698.5	23652.4
45°	24019.2	23774.7	24420.0	25377.7	25384.5	23747.5	21831.9	22966.3	24963.4	26118.2	24589.8
47.5°	23591.2	23713.5	24379.2	25595.1	25907.6	24433.5	22932.3	23890.1	26131.7	27157.4	25459.3
50°	22633.5	22878.0	24093.9	25357.4	26301.6	25160.4	24195.8	24888.7	27211.8	27993.0	25601.9
52.5°	21634.9	21770.8	23672.8	25540.8	26478.2	26097.8	25887.2	26267.6	28529.6	28937.1	25778.5
55°	18917.8	19563.1	22280.2	25459.3	27340.8	27789.2	27626.1	28183.2	30024.0	30431.6	26743.1
56°	17661.2	18000.8	21444.7	25078.9	27510.7	28407.3	28325.8	28577.1	30818.7	31246.7	26892.5
57.5°	15338.0	15365.2	18286.1	23394.3	26872.1	28590.7	28509.2	28706.2	30662.5	30370.4	25581.5
60°	9598.2	10019.3	12444.3	17994.0	22850.8	26525.7	26987.6	25404.9	25853.2	25235.1	19902.8
62.5°	4972.3	4911.2	6521.0	10522.0	15168.2	18992.5	19420.5	19345.8	18652.9	17749.5	13001.3
65°	2479.4	2492.9	3410.0	5210.0	7770.9	9944.6	11140.1	11269.2	9428.3	8674.4	6167.8
67.5°	1800.1	1868.0	2452.2	3185.8	3661.3	4096.0	5019.8	4924.7	3729.2	3545.8	3287.7
70°	1399.3	1460.4	1990.3	2431.8	2207.6	2207.6	2404.6	2486.1	2656.0	2730.7	2819.0
72.5°	1018.9	1066.5	1521.6	1677.8	1446.9	1555.5	1800.1	1990.3	2166.9	2194.1	2296.0
75°	699.7	740.4	998.5	923.8	869.5	1073.3	1317.8	1494.4	1623.5	1691.4	1752.5
77.5°	455.1	468.7	570.6	482.3	557.0	692.9	855.9	1005.3	1134.4	1188.7	1202.3
80°	203.8	224.2	244.5	305.7	387.2	495.9	611.3	733.6	815.1	835.5	876.3
82.5°	115.5	115.5	149.4	217.4	285.3	360.0	441.5	529.8	624.9	645.3	638.5
85°	61.1	61.1	88.3	129.1	176.6	210.6	203.8	210.6	224.2	258.1	251.3
87.5°	20.4	20.4	27.2	27.2	34.0	40.8	34.0	47.5	61.1	61.1	61.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	13952.3	13952.3	13952.3	13952.3	13952.3	13952.3	13952.3	13952.3	13952.3	13952.3	13952.3
2.5°	13931.9	13993.1	13911.6	14088.2	14088.2	14054.2	13884.4	13938.7	13979.5	13979.5	14013.5
5°	14196.9	14176.5	14230.8	14020.3	13891.2	13843.6	13565.1	13429.3	13313.8	13307.0	13205.1
7.5°	14346.3	14292.0	14271.6	14115.3	13544.8	13198.3	12600.6	12254.1	12179.4	11914.5	12016.4
10°	14584.0	14685.9	14584.0	13735.0	12940.2	12145.5	11561.3	11024.6	10814.1	10644.3	10542.4
12.5°	15073.1	15025.6	14434.6	13286.6	12172.6	11228.4	10359.0	9795.2	9584.6	9435.1	9421.6
15°	15487.5	15249.7	14346.3	12580.2	10977.1	9971.8	9258.5	8857.8	8762.7	8776.2	8837.4
17.5°	15630.1	15467.1	13884.4	11846.6	10087.2	8905.3	8572.5	8511.3	8599.6	8701.5	8728.7
20°	15854.3	15596.2	13694.2	10848.0	8986.8	8239.6	8219.2	8436.6	8599.6	8749.1	8769.4
22.5°	16323.0	15670.9	13076.1	9903.8	8232.8	8042.6	8239.6	8423.0	8674.4	8796.6	8687.9
25°	16458.9	15507.9	12206.6	8769.4	7757.3	7920.4	8130.9	8382.3	8558.9	8626.8	8674.4
27.5°	16574.3	15256.5	11031.4	8015.5	7607.9	7913.6	8130.9	8341.5	8436.6	8497.7	8552.1
30°	16900.4	15181.8	10012.5	7512.8	7512.8	7777.7	8056.2	8110.6	8239.6	8314.3	8409.4
32.5°	17063.4	14665.6	8966.4	7193.5	7417.7	7845.6	7866.0	7967.9	7974.7	8035.8	7933.9
35°	17491.4	14298.8	7995.1	6962.6	7458.4	7777.7	7879.6	7818.5	7485.6	7322.6	7356.6
37.5°	17803.8	14115.3	7295.4	6935.4	7465.2	7852.4	7906.8	7444.9	7098.4	6826.7	6894.6
40°	18646.1	13660.2	6765.6	6887.9	7526.4	7933.9	7784.5	7281.8	6656.9	6378.4	6330.8
42.5°	19291.4	13334.2	6432.7	6833.5	7573.9	8049.4	7723.4	6955.8	6317.3	6059.1	6127.1
45°	20038.6	13259.5	6256.1	6847.1	7655.4	8110.6	7648.6	6704.5	6025.2	5923.3	5902.9
47.5°	20303.6	12722.8	6065.9	6731.6	7635.1	8090.2	7397.3	6514.3	5916.5	5930.1	5984.4
50°	19862.0	12172.6	5923.3	6493.9	7499.2	7906.8	7003.3	6262.9	5855.4	6025.2	6120.3
52.5°	19298.2	11608.8	5631.2	6174.6	7220.7	7621.5	6819.9	6249.3	5794.2	5739.9	5760.3
55°	19468.0	11146.9	5223.6	5739.9	6772.4	7091.6	6616.1	6120.3	5644.8	5441.0	5508.9
56°	18917.8	10671.4	4958.7	5468.2	6466.7	6752.0	6514.3	6004.8	5522.5	5386.7	5386.7
57.5°	17362.3	9075.1	4612.3	5033.4	5821.4	6161.0	6317.3	5936.9	5386.7	5148.9	5155.7
60°	12804.3	6453.1	4136.8	4435.7	4822.9	5094.6	5821.4	5746.7	5047.0	4884.0	4822.9
62.5°	7893.2	4714.2	3797.2	3912.6	4109.6	4333.8	5081.0	5203.3	4687.0	4510.4	4469.6
65°	4422.1	3607.0	3539.0	3586.6	3681.7	3797.2	4218.3	4490.0	4136.8	3865.1	3851.5
67.5°	3233.4	3226.6	3280.9	3321.7	3362.4	3362.4	3464.3	3573.0	3525.4	3308.1	3287.7
70°	2873.3	2893.7	2934.5	2941.3	2954.8	2907.3	2825.8	2791.8	2846.2	2710.3	2683.1
72.5°	2370.7	2438.6	2486.1	2492.9	2418.2	2357.1	2248.4	2132.9	2092.2	2065.0	2058.2
75°	1820.5	1868.0	1888.4	1881.6	1854.4	1766.1	1637.1	1521.6	1446.9	1365.3	1406.1
77.5°	1229.5	1297.4	1331.4	1331.4	1290.6	1154.8	1093.6	1005.3	930.6	842.3	855.9
80°	862.7	910.2	964.6	957.8	889.9	821.9	733.6	652.1	591.0	523.0	516.2
82.5°	645.3	672.5	699.7	686.1	638.5	570.6	509.5	434.7	366.8	319.3	319.3
85°	231.0	251.3	305.7	319.3	346.4	346.4	292.1	244.5	197.0	163.0	163.0
87.5°	67.9	67.9	74.7	74.7	67.9	74.7	61.1	67.9	74.7	47.5	47.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)