

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: P651644

Luminaire Tested: **GALN-SA9D-840-U-T3R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651644  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9D-840-U-T3R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35869.5 lumens  
Efficiency: N/A  
Efficacy: 65.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

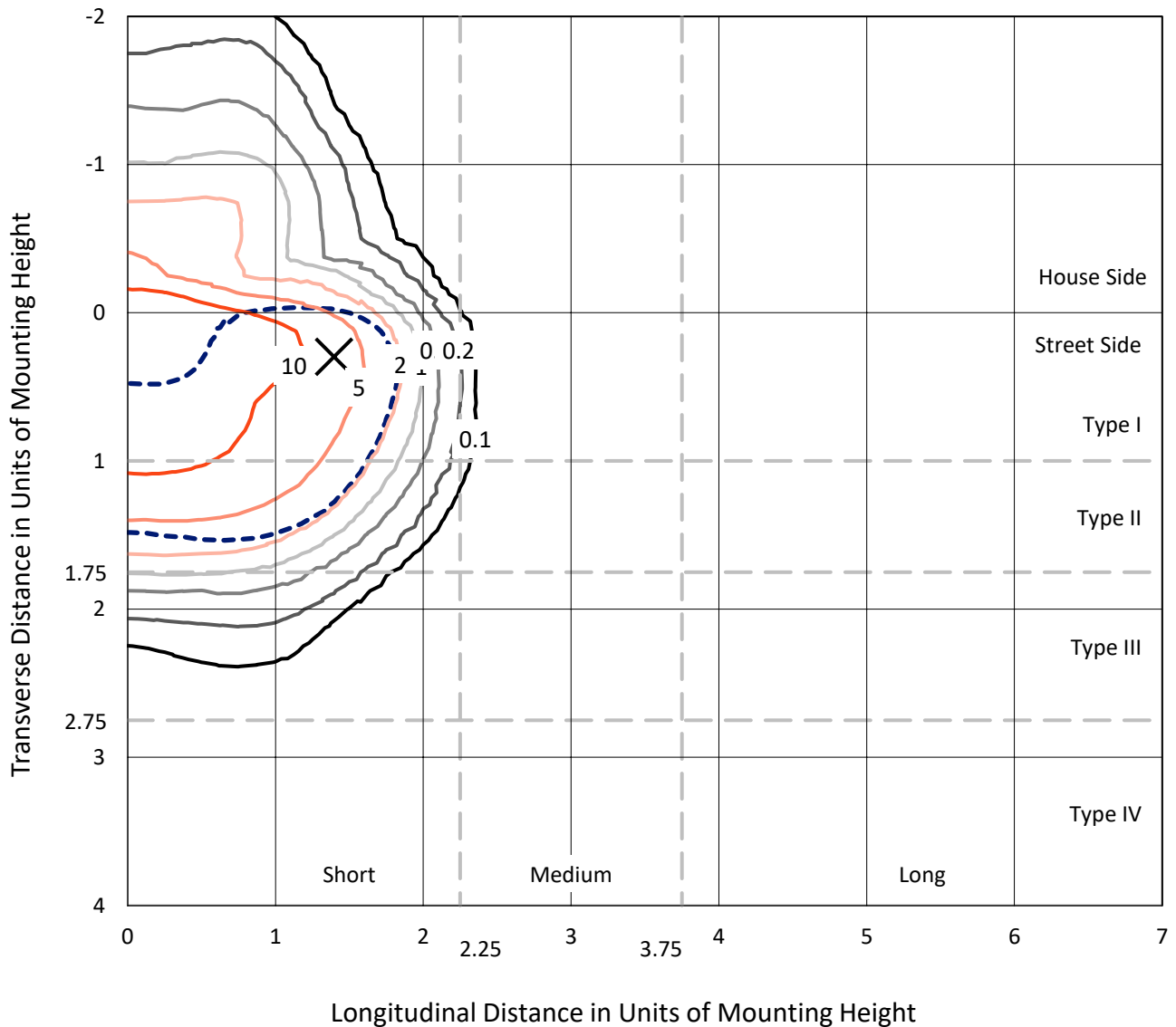
Input Watts (W): 552  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

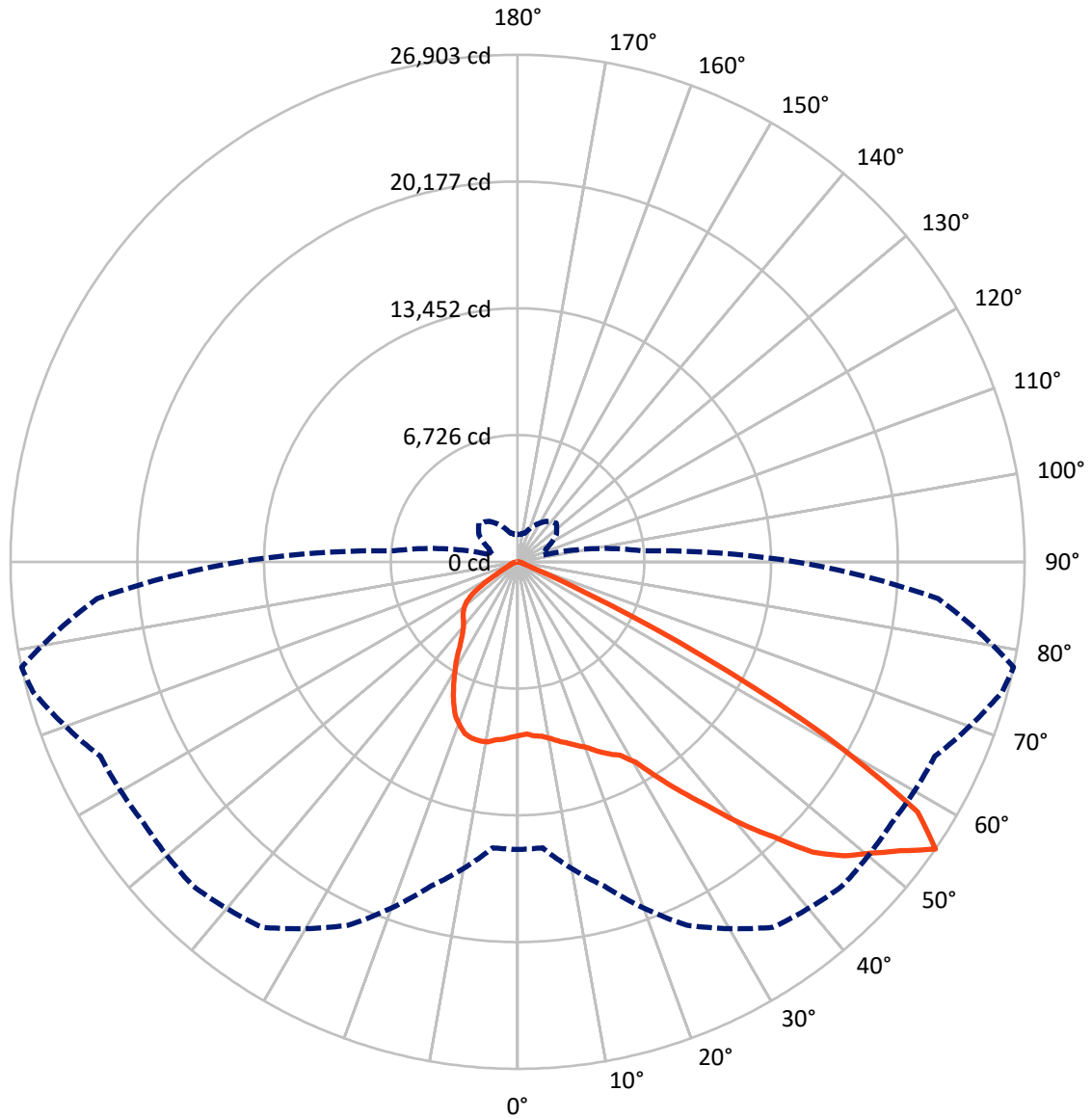
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

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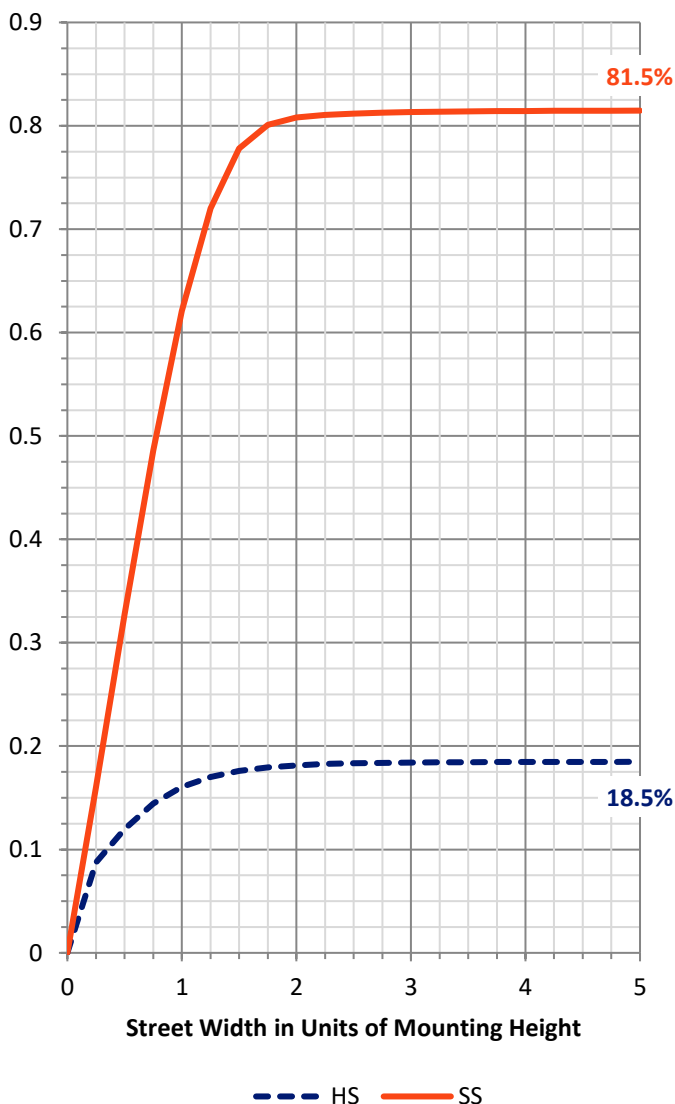
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6662.4	0.0	6662.4
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	29207.1	0.0	29207.1
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	35869.5	0.0	35869.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	822.3	2.3
10°-20°	2176.3	6.1
20°-30°	3814.6	10.6
30°-40°	6289.8	17.5
40°-50°	9152.5	25.5
50°-60°	10370.7	28.9
60°-70°	2965.2	8.3
70°-80°	230.2	0.6
80°-90°	47.9	0.1
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°	35869.5	100.0
0°-180°	35869.5	100.0

**Coefficient of Utilization**



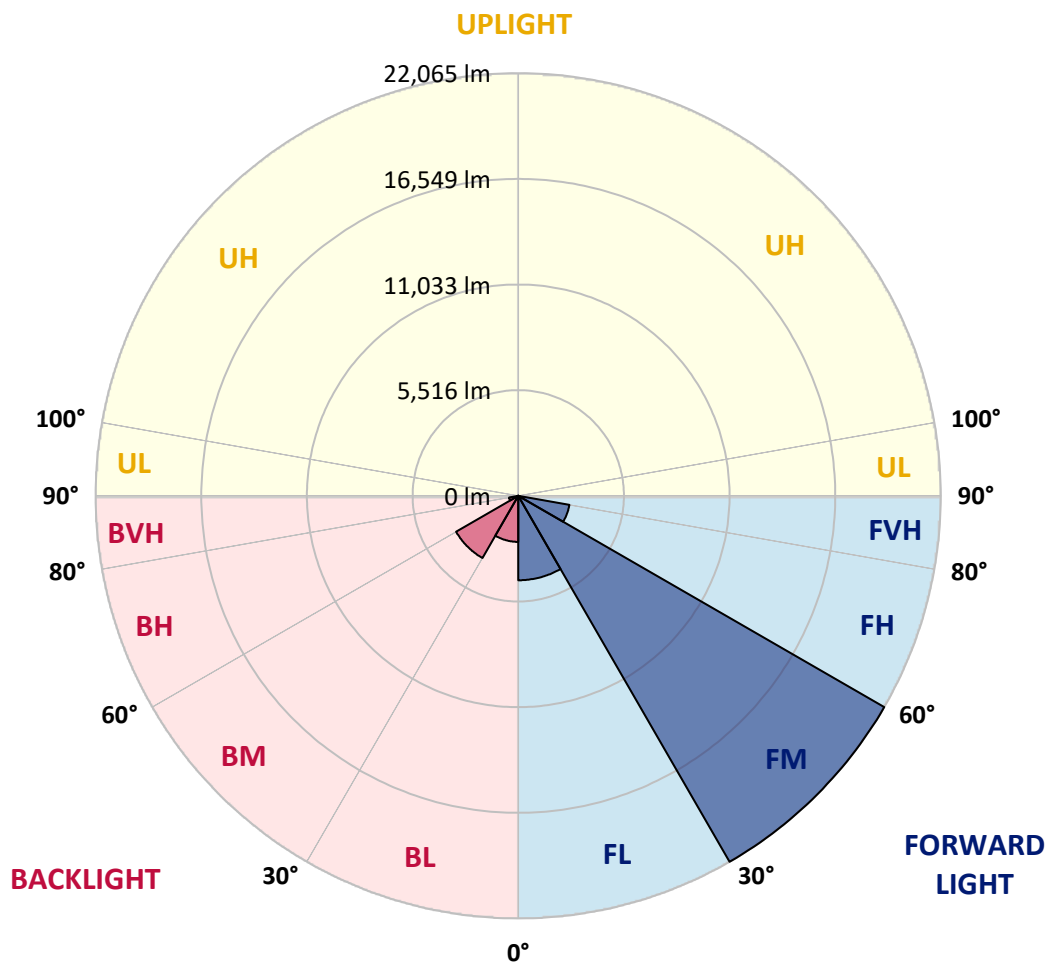
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4409.4	12.3			
FM (30°-60°)	22065.3	61.5			
FH (60°-80°)	2709.1	7.6			G2/5000
FVH (80°-90°)	23.3	0.1			G1/100
BL (0°-30°)	2403.8	6.7	B3/2500		
BM (30°-60°)	3747.7	10.4	B3/5000		
BH (60°-80°)	486.3	1.4	B1/500		G1/500
BVH (80°-90°)	24.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	9222.1	9222.1	9222.1	9222.1	9222.1	9222.1	9222.1	9222.1	9222.1	9222.1	9222.1
2.5°	8670.5	8753.9	8766.8	8869.4	8863.0	9036.1	9087.4	9093.8	9209.2	9151.5	9299.0
5°	8426.8	8381.9	8362.7	8542.3	8593.6	8747.5	8875.7	8952.7	9190.0	9273.4	9427.3
7.5°	8208.8	8208.8	8221.6	8381.9	8362.7	8561.5	8696.2	8933.4	9279.8	9350.3	9536.4
10°	7997.2	7920.2	8016.4	8183.2	8324.2	8414.0	8696.2	8920.7	9324.7	9529.9	9786.4
12.5°	7888.2	7926.6	7939.5	8061.3	8215.2	8484.6	8638.5	9010.5	9645.3	9767.2	10043.0
15°	8574.3	8497.4	8311.4	8202.4	8330.6	8458.9	8843.7	9222.1	9812.1	9985.2	10293.1
17.5°	9369.6	9305.4	9151.5	8856.5	8567.9	8805.2	9106.6	9452.9	9991.7	10248.2	10703.5
20°	10408.5	10305.9	10152.0	9574.8	9324.7	9068.2	9388.8	9799.2	10286.6	10517.5	10985.6
22.5°	11646.3	11646.3	11299.9	10600.9	10081.4	9837.8	9972.4	10209.7	10613.8	10928.0	11389.7
25°	12935.3	12896.8	12582.5	11857.8	10979.3	10690.7	10844.6	11011.3	11120.4	11293.5	11601.3
27.5°	14410.3	14185.8	13788.2	12986.6	12210.6	11652.6	11819.4	11671.9	11537.2	11627.0	12069.5
30°	15410.7	15551.9	15045.2	14275.6	13544.5	12922.5	12954.5	12826.3	12210.6	12338.8	12601.8
32.5°	16449.6	16539.4	16257.3	15834.0	15102.9	14378.2	14115.3	14006.3	13544.5	13602.2	13345.7
35°	17315.4	17488.6	17238.5	17052.5	16840.9	16257.3	15532.6	15885.3	15141.4	15000.3	14333.3
37.5°	18110.7	18059.4	18354.3	18162.0	18117.1	17706.7	16911.4	16982.0	16481.7	16449.6	15680.1
40°	18822.5	18835.4	19239.4	19329.1	19149.6	18418.5	17264.1	17822.1	18226.1	18264.6	17276.9
42.5°	19412.6	19585.6	19932.0	20656.6	20387.3	19168.8	17629.6	18238.9	19739.6	19976.9	18790.5
45°	19925.6	20278.3	20707.9	21355.7	21201.8	20233.4	18540.3	19098.3	21355.7	21977.8	20214.2
47.5°	19957.6	20419.4	20887.5	21849.5	22041.9	20804.2	19483.0	20457.8	22638.3	23311.7	21253.1
50°	19829.4	20073.1	21009.4	22054.7	22490.8	21734.0	20804.2	21599.4	23882.5	24305.7	21779.0
52.5°	18309.5	18495.4	20374.5	22247.1	23298.9	22785.8	22554.9	23189.8	25152.3	25466.5	22272.8
55°	15263.2	15231.2	17815.7	21278.7	23670.8	24344.2	24203.1	24427.6	26620.8	26903.0	22394.7
57.5°	10440.6	11024.2	13255.9	17719.4	21394.2	23978.7	24126.2	23754.2	24908.6	25017.6	19521.5
60°	5630.7	5874.4	7670.1	11825.8	16289.3	19540.8	19925.6	19252.2	19162.4	18854.5	13935.7
62.5°	2238.2	2360.0	3379.7	5855.2	8875.7	11877.1	12704.4	12428.6	11838.6	11030.6	7214.8
65°	1064.5	1141.6	1680.2	2738.4	3937.6	4951.0	5778.3	6034.8	4450.7	4008.2	2379.3
67.5°	724.7	782.4	1224.9	1564.8	1404.5	1468.6	1911.1	1776.4	1045.4	891.5	660.5
70°	551.5	590.0	981.2	1064.5	628.5	442.5	493.8	461.7	429.7	436.1	429.7
72.5°	391.2	423.3	718.3	628.5	275.8	205.2	262.9	314.3	314.3	314.3	307.8
75°	237.2	269.4	416.9	243.7	109.0	109.0	166.8	211.6	224.5	230.9	218.1
77.5°	121.9	153.9	141.1	70.6	70.6	83.3	121.9	147.5	160.3	160.3	153.9
80°	25.7	25.7	25.7	38.5	70.6	89.8	121.9	134.6	153.9	153.9	141.1
82.5°	0.0	6.4	19.3	38.5	64.2	83.3	115.5	134.6	153.9	160.3	147.5
85°	0.0	6.4	12.9	25.7	44.9	51.3	44.9	38.5	38.5	38.5	38.5
87.5°	0.0	0.0	6.4	6.4	6.4	12.9	12.9	12.9	12.9	12.9	12.9
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°	9222.1	9222.1	9222.1	9222.1	9222.1	9222.1	9222.1	9222.1	9222.1	9222.1	9222.1
2.5°	9311.9	9331.1	9299.0	9292.6	9267.0	9343.9	9157.9	9113.1	9228.5	9119.5	9145.1
5°	9433.7	9478.6	9420.9	9324.7	9183.6	8965.6	8779.5	8535.9	8420.4	8337.1	8324.2
7.5°	9523.5	9555.5	9497.8	9190.0	8766.8	8215.2	7804.7	7503.3	7266.1	7195.5	7080.1
10°	9889.1	9895.5	9606.8	8927.0	8099.8	7375.1	6746.6	6284.9	6047.5	5900.0	5836.0
12.5°	10132.7	10119.9	9536.4	8407.6	7304.5	6342.6	5624.3	5066.4	4848.3	4777.8	4732.9
15°	10440.6	10370.0	9369.6	7875.3	6278.5	5239.5	4591.8	4207.0	4187.8	4142.9	4187.8
17.5°	10684.2	10485.4	9125.9	6907.0	5297.2	4316.0	3892.7	3918.4	3969.7	4014.6	4021.0
20°	11081.9	10671.4	8567.9	6060.4	4386.6	3700.4	3693.9	3809.4	3937.6	3988.9	4040.2
22.5°	11383.3	10748.4	7971.5	5156.2	3642.6	3450.3	3559.3	3732.4	3828.7	3880.0	3956.9
25°	11492.3	10536.7	7176.3	4251.9	3283.5	3334.8	3501.6	3617.0	3738.8	3796.5	3764.5
27.5°	11601.3	10427.7	6227.1	3501.6	3091.1	3257.9	3399.0	3514.4	3552.9	3629.8	3681.1
30°	11864.2	10049.4	5374.2	3027.0	2995.0	3206.6	3309.2	3347.7	3450.3	3495.1	3495.1
32.5°	12075.9	9901.8	4469.9	2802.5	2982.1	3232.2	3245.0	3245.0	3257.9	3225.8	3213.0
35°	12512.0	9395.2	3661.9	2667.8	2975.7	3238.6	3270.7	3161.7	2866.6	2751.2	2719.1
37.5°	13050.7	9068.2	3065.4	2635.8	3020.6	3315.6	3366.9	2956.5	2571.7	2385.7	2353.6
40°	13704.9	8837.3	2674.3	2623.0	3123.2	3495.1	3341.2	2796.2	2295.9	2026.6	2013.7
42.5°	14468.0	8625.6	2411.3	2616.5	3251.5	3681.1	3315.6	2661.4	2013.7	1834.1	1859.8
45°	15077.3	8510.2	2231.8	2571.7	3296.4	3790.1	3334.8	2424.2	1898.3	1782.8	1795.7
47.5°	15551.9	8266.5	2084.3	2494.7	3289.9	3828.7	3161.7	2328.0	1840.5	1872.7	1904.7
50°	15564.6	7939.5	1898.3	2328.0	3193.7	3758.1	2962.8	2238.2	1827.7	1962.4	2026.6
52.5°	15391.5	7477.7	1699.5	2090.6	2969.2	3514.4	2783.3	2199.7	1770.1	1757.2	1834.1
55°	14775.9	6611.9	1366.0	1693.1	2507.5	2898.8	2623.0	2129.2	1596.9	1449.4	1462.2
57.5°	11941.2	4739.3	1006.8	1212.0	1776.4	2122.8	2366.4	2097.1	1436.5	1231.3	1237.7
60°	7394.3	2687.1	737.5	827.3	1096.7	1289.0	1917.6	1949.6	1282.6	1038.9	1026.1
62.5°	3796.5	1327.5	570.8	583.6	673.4	756.7	1314.7	1635.3	1160.7	987.6	987.6
65°	1269.8	654.1	500.2	448.9	448.9	468.2	795.2	1135.1	981.2	827.3	827.3
67.5°	545.1	487.4	436.1	391.2	359.1	339.9	448.9	660.5	731.1	628.5	602.8
70°	423.3	410.4	378.4	327.1	282.2	256.5	262.9	339.9	416.9	404.0	391.2
72.5°	314.3	314.3	301.4	256.5	218.1	185.9	173.2	179.6	198.8	205.2	211.6
75°	218.1	224.5	224.5	198.8	160.3	134.6	115.5	96.2	77.0	64.2	57.7
77.5°	147.5	153.9	166.8	147.5	121.9	89.8	70.6	51.3	32.0	12.9	12.9
80°	128.3	147.5	160.3	147.5	128.3	96.2	70.6	38.5	19.3	0.0	0.0
82.5°	134.6	147.5	166.8	141.1	121.9	89.8	70.6	44.9	19.3	6.4	0.0
85°	32.0	32.0	38.5	44.9	57.7	64.2	51.3	32.0	19.3	6.4	0.0
87.5°	12.9	12.9	12.9	12.9	12.9	6.4	6.4	6.4	6.4	0.0	0.0
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)