

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: P530976

Luminaire Tested: **GALN-SA6B-727-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530976
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-SA6B-727-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 800mA 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: 24633 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

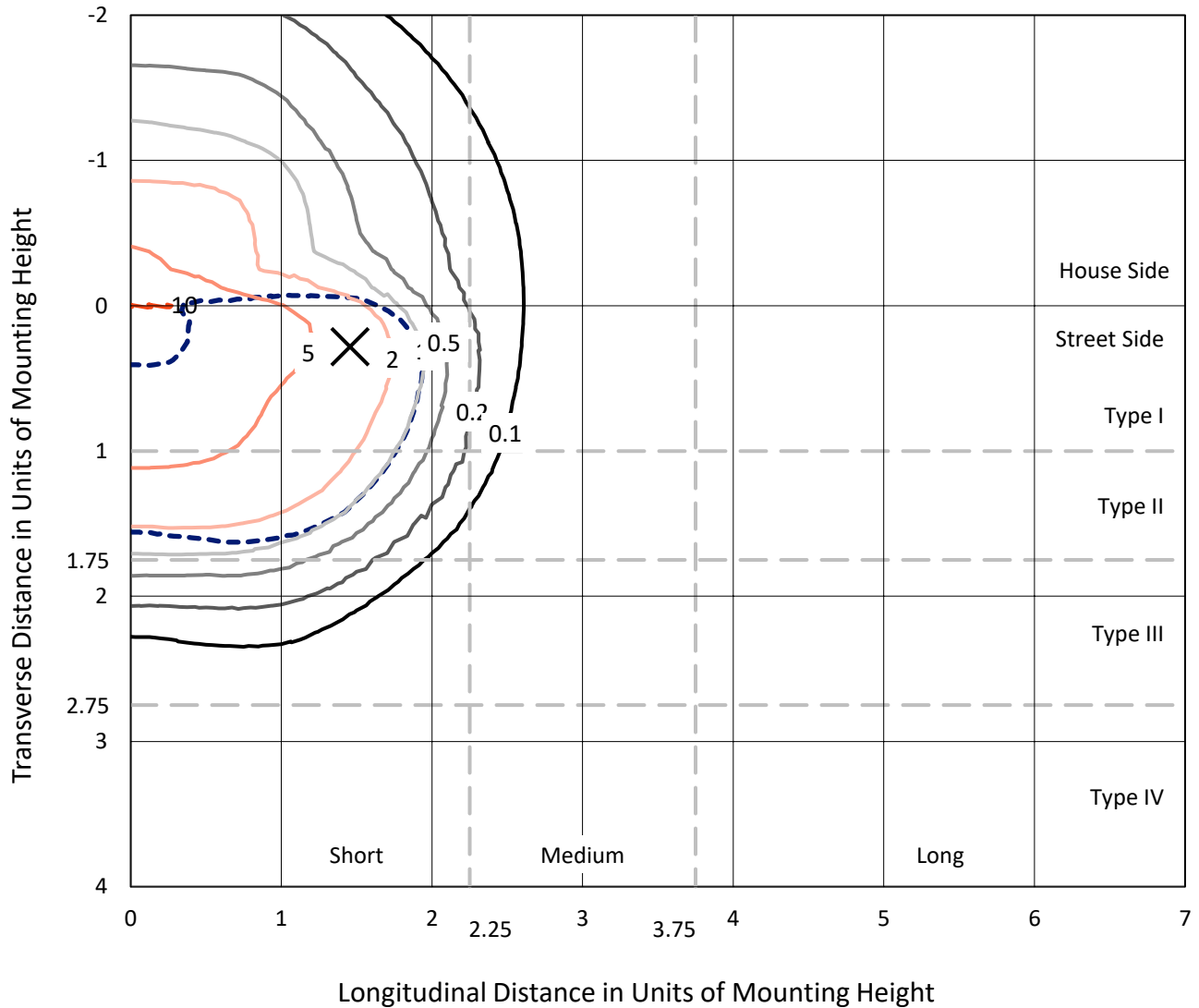
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

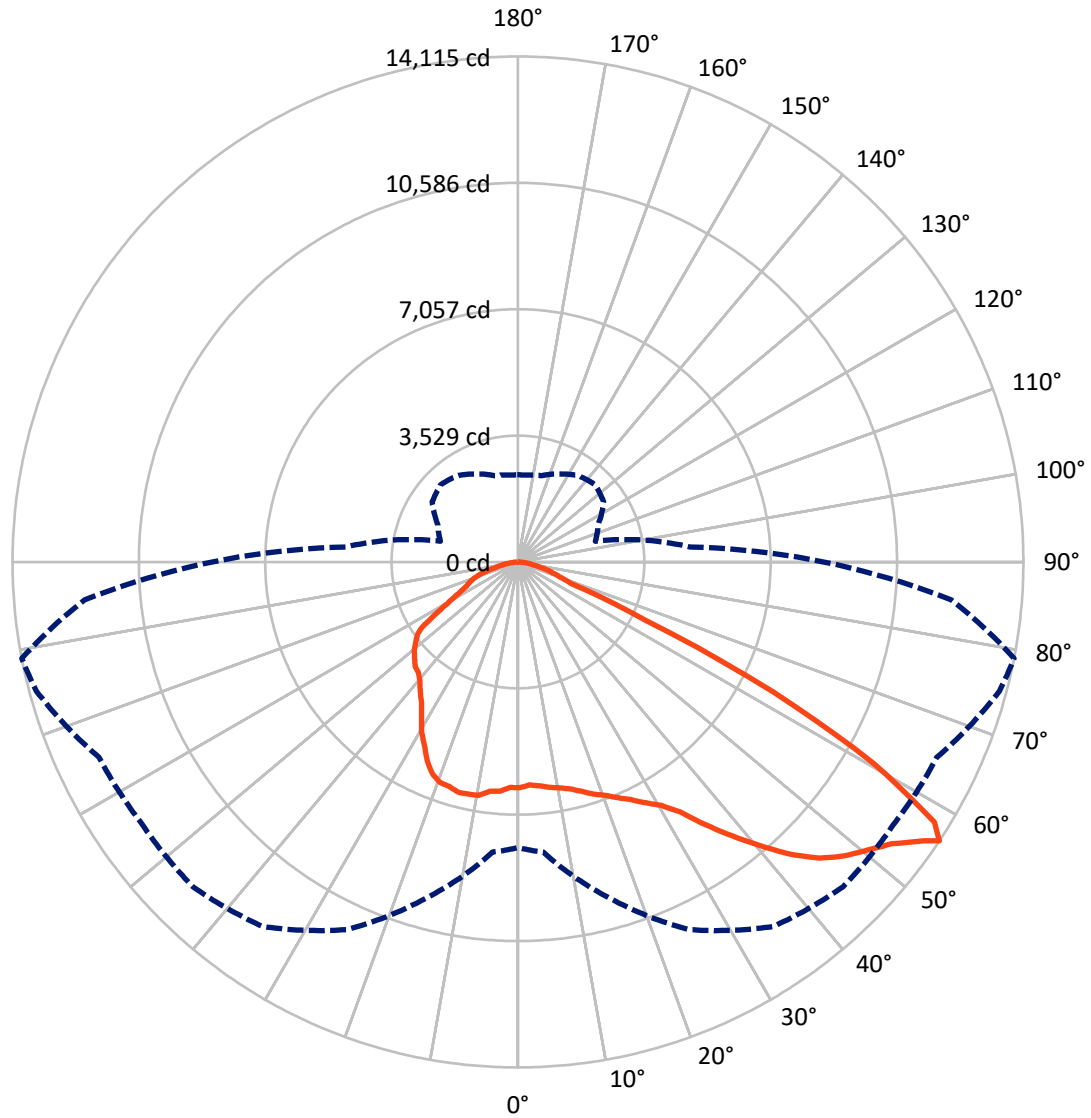
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 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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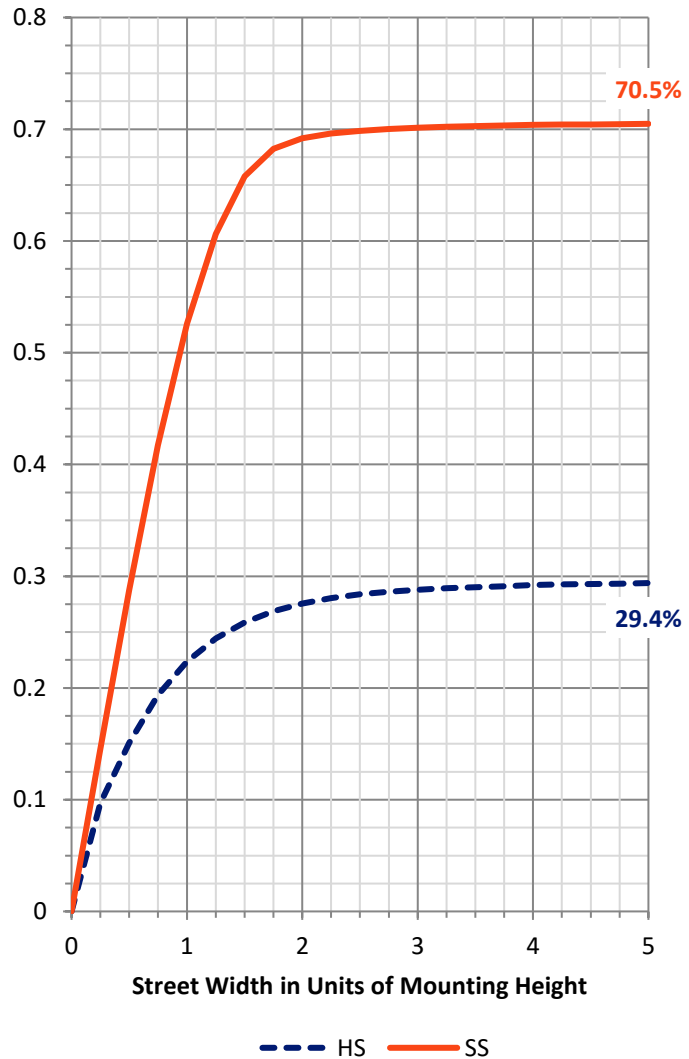
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7274.7	0.0	7274.7
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	17358.3	0.0	17358.3
	% Fixture	70.5	0.0	70.5
Total	Lumens	24633.0	0.0	24633.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	573.0	2.3
10°-20°	1568.2	6.4
20°-30°	2682.9	10.9
30°-40°	4111.9	16.7
40°-50°	5557.2	22.6
50°-60°	6382.6	25.9
60°-70°	2909.4	11.8
70°-80°	717.3	2.9
80°-90°	130.4	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°	24633.0	100.0
0°-180°	24633.0	100.0



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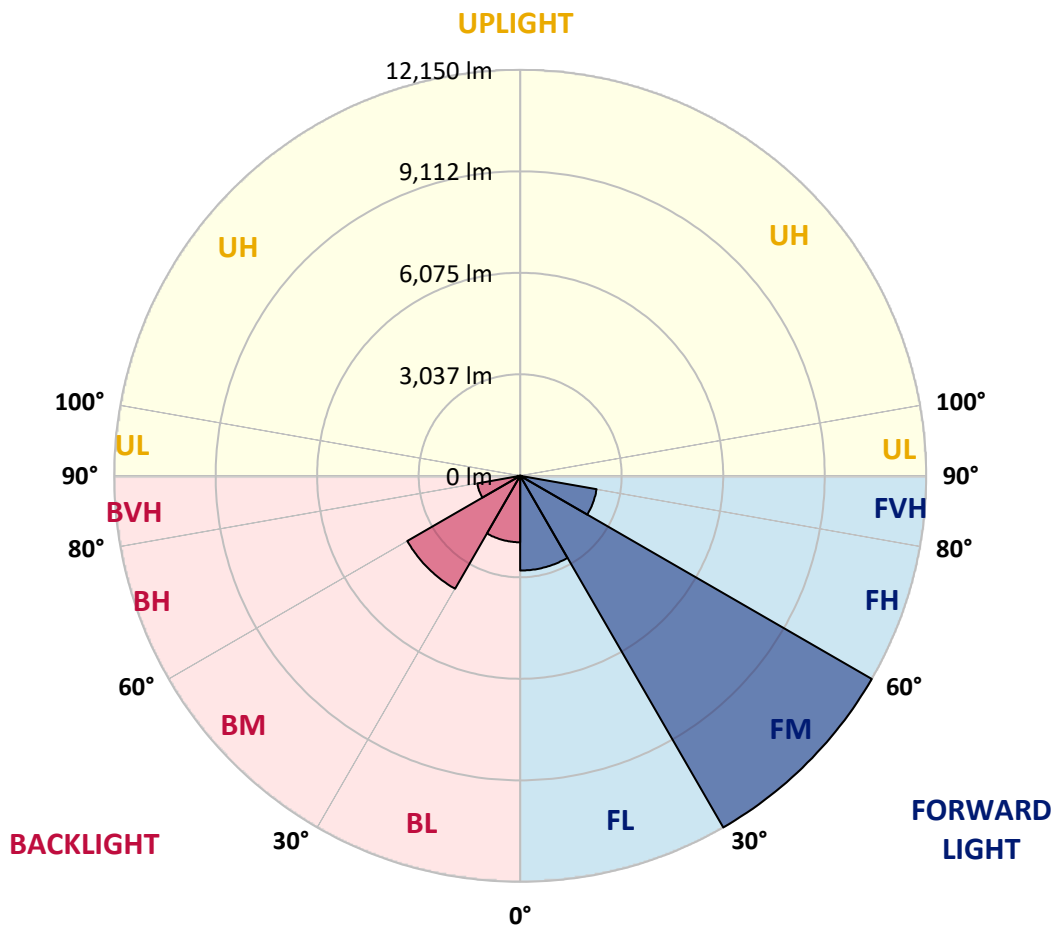
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2834.2	11.5			
FM (30°-60°)	12149.7	49.3			
FH (60°-80°)	2322.3	9.4			G2/5000
FVH (80°-90°)	52.1	0.2			G1/100
BL (0°-30°)	1989.9	8.1	B3/2500		
BM (30°-60°)	3902.0	15.8	B3/5000		
BH (60°-80°)	1304.4	5.3	B3/2500		G3/2500
BVH (80°-90°)	78.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	6302.6	6302.6	6302.6	6302.6	6302.6	6302.6	6302.6	6302.6	6302.6	6302.6	6302.6
2.5°	5995.8	5980.4	6017.2	6044.9	6078.6	6121.6	6143.0	6155.3	6262.7	6235.1	6318.0
5°	5866.9	5827.0	5854.6	5876.1	5934.4	5986.6	6044.9	6136.9	6235.1	6278.1	6379.3
7.5°	5753.4	5731.9	5725.7	5741.1	5820.9	5888.4	5989.6	6124.6	6284.2	6354.8	6413.1
10°	5566.2	5535.5	5581.5	5682.8	5704.3	5845.4	5962.0	6155.3	6293.4	6416.1	6588.0
12.5°	5483.3	5452.6	5461.9	5520.2	5670.5	5805.5	5943.6	6161.5	6453.0	6502.1	6732.2
15°	5615.3	5584.6	5593.8	5578.5	5722.7	5793.2	6011.1	6284.2	6563.4	6646.3	6891.8
17.5°	5916.0	5919.1	5879.2	5845.4	5811.7	5962.0	6112.4	6357.8	6606.4	6815.0	6999.1
20°	6489.8	6388.5	6308.7	6118.5	6066.3	6130.8	6321.0	6557.3	6781.3	6953.1	7161.8
22.5°	6931.6	6940.8	6827.3	6514.3	6400.8	6428.4	6591.0	6784.4	7029.8	7152.6	7391.9
25°	7573.0	7508.5	7385.8	7137.2	6882.5	6904.0	7023.7	7198.6	7266.1	7352.0	7612.8
27.5°	8159.0	8177.4	7935.0	7701.8	7385.8	7324.4	7539.2	7569.9	7456.3	7619.0	7708.0
30°	8754.3	8739.0	8579.4	8306.3	7996.4	8008.7	8103.8	7953.4	7796.9	7885.9	7947.3
32.5°	9371.1	9196.2	9190.0	8944.6	8708.3	8594.7	8478.1	8551.8	8309.4	8327.8	8269.5
35°	9865.1	9889.6	9748.5	9573.6	9457.0	9257.5	8938.4	9070.4	9024.3	9002.9	8751.2
37.5°	10224.1	10129.0	10199.5	10141.2	10030.8	9782.2	9450.8	9576.7	9598.1	9702.5	9411.0
40°	10518.7	10478.8	10666.0	10696.6	10619.9	10082.9	9487.7	9862.0	10184.2	10411.3	10064.5
42.5°	10659.8	10745.7	10942.1	11178.4	11006.6	10432.8	9677.9	10079.9	10797.9	11156.9	10684.4
45°	10850.1	10739.6	11031.1	11463.8	11466.8	10727.3	9862.0	10374.5	11276.6	11798.2	11107.8
47.5°	10656.7	10712.0	11012.7	11561.9	11703.1	11037.2	10359.1	10791.8	11804.4	12267.7	11500.6
50°	10224.1	10334.6	10883.8	11454.5	11881.1	11365.6	10929.8	11242.8	12292.2	12645.1	11565.0
52.5°	9773.0	9834.4	10693.6	11537.4	11960.8	11789.0	11693.9	11865.7	12887.5	13071.6	11644.8
55°	8545.7	8837.2	10064.5	11500.6	12350.5	12553.1	12479.4	12731.0	13562.6	13746.7	12080.5
56°	7978.0	8131.4	9687.1	11328.7	12427.2	12832.3	12795.5	12909.0	13921.6	14114.9	12148.0
57.5°	6928.6	6940.8	8260.3	10567.8	12138.8	12915.1	12878.3	12967.3	13851.0	13719.1	11555.8
60°	4335.7	4526.0	5621.4	8128.3	10322.3	11982.3	12191.0	11476.0	11678.5	11399.3	8990.6
62.5°	2246.1	2218.5	2945.7	4753.0	6851.9	8579.4	8772.7	8739.0	8426.0	8017.9	5873.0
65°	1120.0	1126.1	1540.4	2353.5	3510.3	4492.2	5032.3	5090.6	4259.0	3918.4	2786.2
67.5°	813.1	843.8	1107.7	1439.1	1653.9	1850.3	2267.6	2224.6	1684.6	1601.7	1485.1
70°	632.1	659.7	899.1	1098.5	997.2	997.2	1086.2	1123.1	1199.8	1233.5	1273.4
72.5°	460.3	481.7	687.3	757.9	653.6	702.7	813.1	899.1	978.8	991.1	1037.1
75°	316.1	334.5	451.1	417.3	392.8	484.8	595.3	675.1	733.4	764.0	791.7
77.5°	205.6	211.7	257.8	217.9	251.6	313.0	386.6	454.1	512.4	537.0	543.1
80°	92.1	101.3	110.5	138.1	174.9	224.0	276.2	331.4	368.2	377.4	395.8
82.5°	52.2	52.2	67.5	98.2	128.9	162.6	199.4	239.3	282.3	291.5	288.4
85°	27.6	27.6	39.9	58.3	79.8	95.1	92.1	95.1	101.3	116.6	113.5
87.5°	9.2	9.2	12.3	12.3	15.3	18.4	15.3	21.5	27.6	27.6	27.6
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°	6302.6	6302.6	6302.6	6302.6	6302.6	6302.6	6302.6	6302.6	6302.6	6302.6	6302.6
2.5°	6293.4	6321.0	6284.2	6364.0	6364.0	6348.6	6271.9	6296.5	6314.9	6314.9	6330.2
5°	6413.1	6403.9	6428.4	6333.3	6275.0	6253.5	6127.7	6066.3	6014.2	6011.1	5965.1
7.5°	6480.6	6456.0	6446.8	6376.3	6118.5	5962.0	5692.0	5535.5	5501.7	5382.1	5428.1
10°	6588.0	6634.0	6588.0	6204.4	5845.4	5486.4	5222.5	4980.1	4885.0	4808.3	4762.2
12.5°	6808.9	6787.4	6520.5	6001.9	5498.7	5072.2	4679.4	4424.7	4329.6	4262.1	4255.9
15°	6996.1	6888.7	6480.6	5682.8	4958.6	4504.5	4182.3	4001.3	3958.3	3964.4	3992.1
17.5°	7060.5	6986.9	6271.9	5351.4	4556.7	4022.7	3872.4	3844.8	3884.7	3930.7	3943.0
20°	7161.8	7045.2	6186.0	4900.3	4059.6	3722.0	3712.8	3811.0	3884.7	3952.2	3961.4
22.5°	7373.5	7078.9	5906.8	4473.8	3719.0	3633.1	3722.0	3804.9	3918.4	3973.7	3924.6
25°	7434.9	7005.3	5514.0	3961.4	3504.2	3577.8	3672.9	3786.5	3866.3	3896.9	3918.4
27.5°	7487.0	6891.8	4983.2	3620.8	3436.7	3574.8	3672.9	3768.1	3811.0	3838.6	3863.2
30°	7634.3	6858.0	4522.9	3393.7	3393.7	3513.4	3639.2	3663.7	3722.0	3755.8	3798.7
32.5°	7708.0	6624.8	4050.4	3249.5	3350.8	3544.1	3553.3	3599.3	3602.4	3630.0	3584.0
35°	7901.3	6459.1	3611.6	3145.2	3369.2	3513.4	3559.4	3531.8	3381.4	3307.8	3323.1
37.5°	8042.4	6376.3	3295.5	3132.9	3372.2	3547.1	3571.7	3363.0	3206.5	3083.8	3114.5
40°	8422.9	6170.7	3056.2	3111.4	3399.8	3584.0	3516.5	3289.4	3007.1	2881.3	2859.8
42.5°	8714.4	6023.4	2905.8	3086.9	3421.3	3636.1	3488.8	3142.1	2853.7	2737.1	2767.7
45°	9051.9	5989.6	2826.0	3093.0	3458.2	3663.7	3455.1	3028.6	2721.7	2675.7	2666.5
47.5°	9171.6	5747.2	2740.1	3040.8	3448.9	3654.5	3341.5	2942.6	2672.6	2678.8	2703.3
50°	8972.2	5498.7	2675.7	2933.4	3387.6	3571.7	3163.6	2829.1	2645.0	2721.7	2764.7
52.5°	8717.5	5244.0	2543.8	2789.2	3261.8	3442.8	3080.7	2823.0	2617.4	2592.8	2602.1
55°	8794.2	5035.3	2359.6	2592.8	3059.3	3203.5	2988.7	2764.7	2549.9	2457.8	2488.5
56°	8545.7	4820.5	2240.0	2470.1	2921.2	3050.0	2942.6	2712.5	2494.7	2433.3	2433.3
57.5°	7843.0	4099.5	2083.5	2273.7	2629.7	2783.1	2853.7	2681.8	2433.3	2325.9	2329.0
60°	5784.0	2915.0	1868.7	2003.7	2178.6	2301.3	2629.7	2595.9	2279.9	2206.2	2178.6
62.5°	3565.5	2129.5	1715.3	1767.4	1856.4	1957.7	2295.2	2350.4	2117.2	2037.5	2019.0
65°	1997.6	1629.4	1598.7	1620.1	1663.1	1715.3	1905.5	2028.2	1868.7	1746.0	1739.8
67.5°	1460.6	1457.5	1482.1	1500.5	1518.9	1518.9	1564.9	1614.0	1592.5	1494.3	1485.1
70°	1298.0	1307.2	1325.6	1328.6	1334.8	1313.3	1276.5	1261.1	1285.7	1224.3	1212.0
72.5°	1070.9	1101.6	1123.1	1126.1	1092.4	1064.8	1015.7	963.5	945.1	932.8	929.7
75°	822.3	843.8	853.0	850.0	837.7	797.8	739.5	687.3	653.6	616.8	635.2
77.5°	555.4	586.1	601.4	601.4	583.0	521.6	494.0	454.1	420.4	380.5	386.6
80°	389.7	411.2	435.7	432.7	402.0	371.3	331.4	294.6	267.0	236.3	233.2
82.5°	291.5	303.8	316.1	309.9	288.4	257.8	230.1	196.4	165.7	144.2	144.2
85°	104.3	113.5	138.1	144.2	156.5	156.5	131.9	110.5	89.0	73.6	73.6
87.5°	30.7	30.7	33.8	33.8	30.7	33.8	27.6	30.7	33.8	21.5	21.5
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)