

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: P531016

Luminaire Tested: **GALN-SA6B-735-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531016
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6B-735-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26592 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

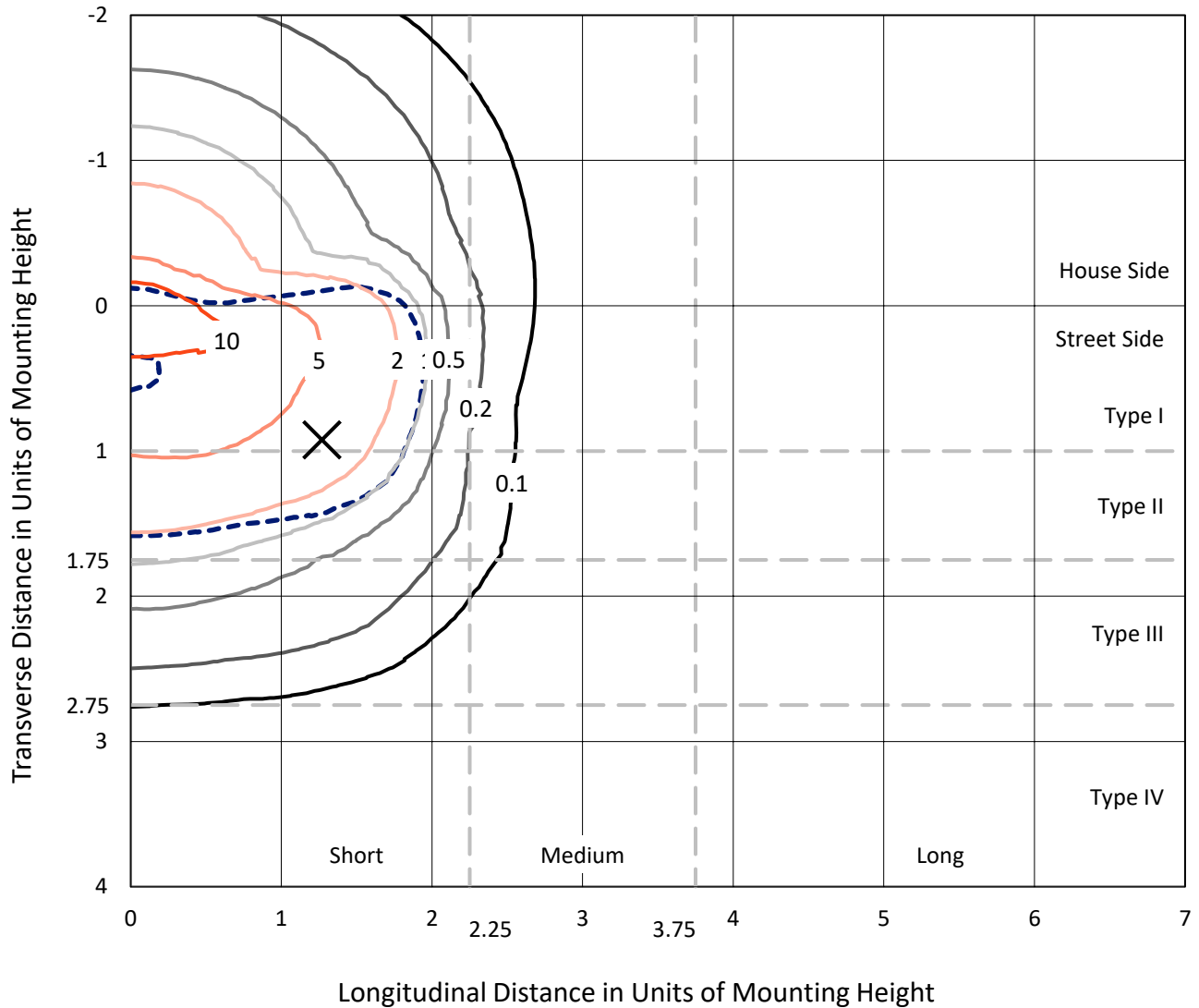
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

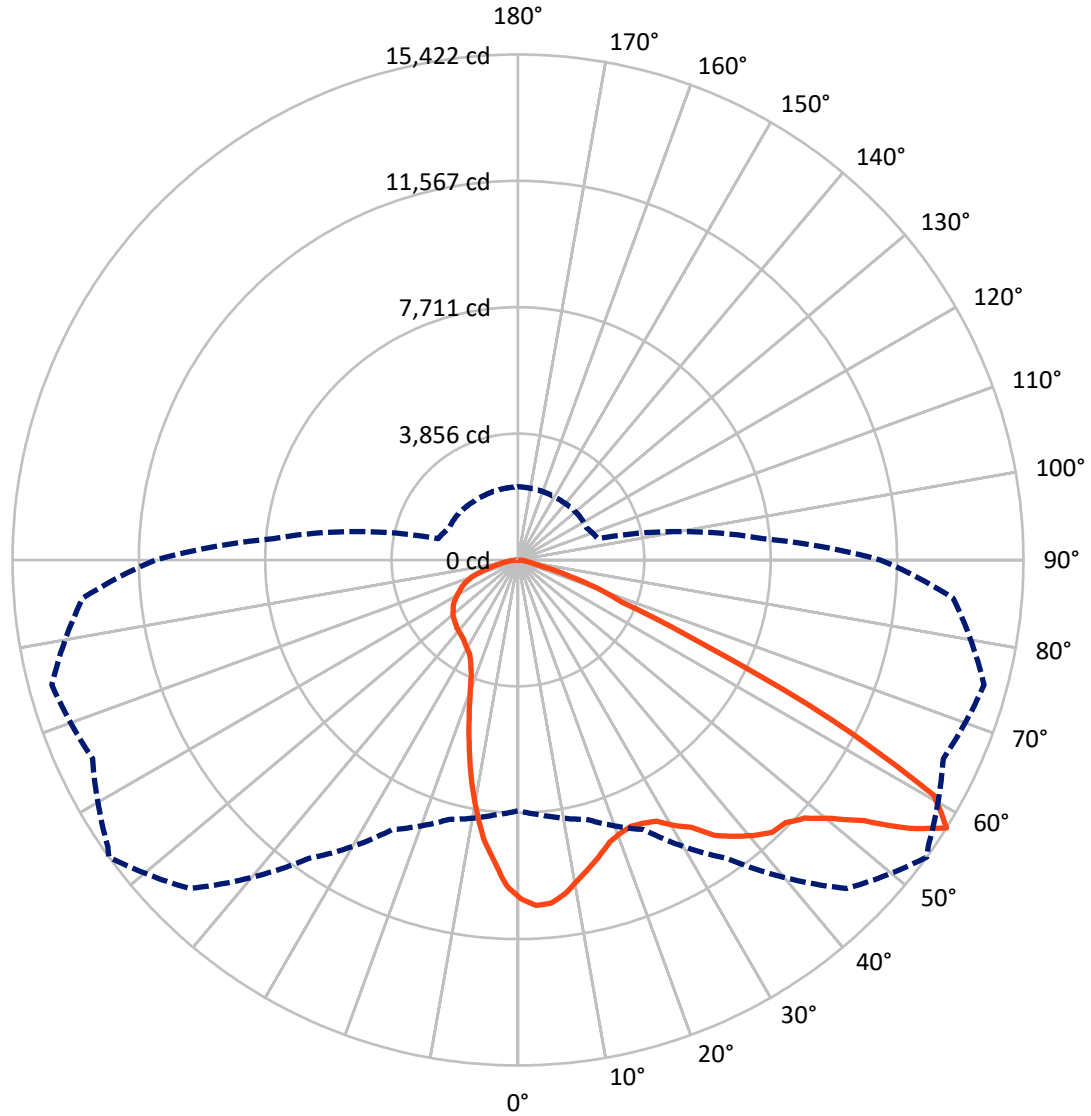
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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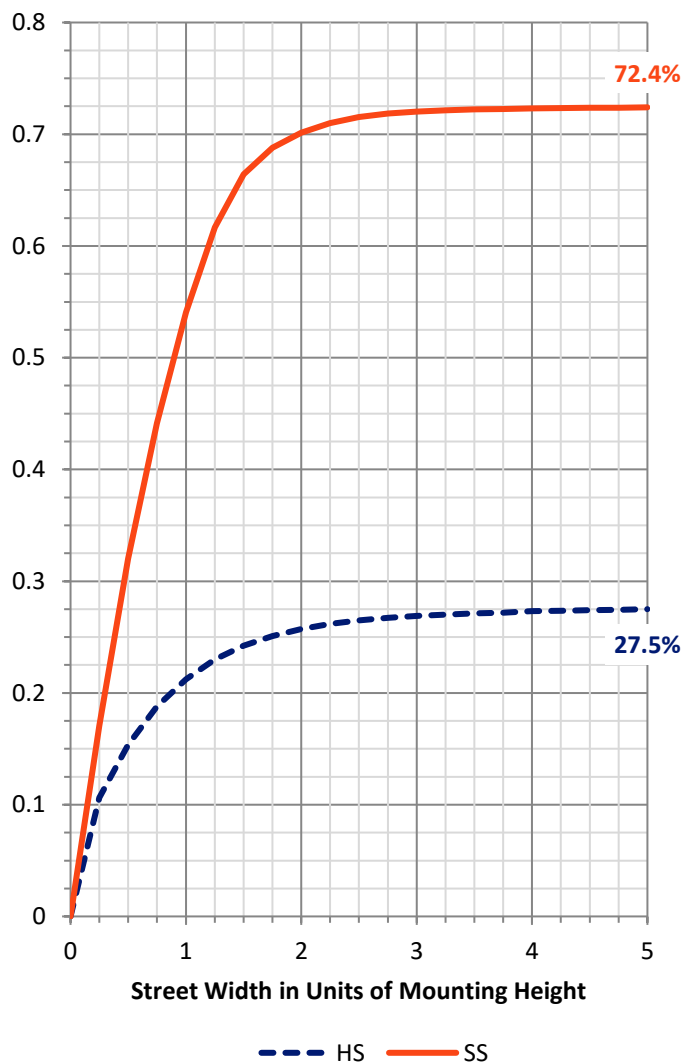
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7356.8	0.0	7356.8
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	19235.2	0.0	19235.2
	% Fixture	72.3	0.0	72.3
Total	Lumens	26592.0	0.0	26592.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	891.4	3.4
10°-20°	2063.9	7.8
20°-30°	2899.8	10.9
30°-40°	4053.9	15.2
40°-50°	5488.2	20.6
50°-60°	6684.9	25.1
60°-70°	3481.8	13.1
70°-80°	892.2	3.4
80°-90°	136.1	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°	26592.0	100.0
0°-180°	26592.0	100.0

Coefficient of Utilization



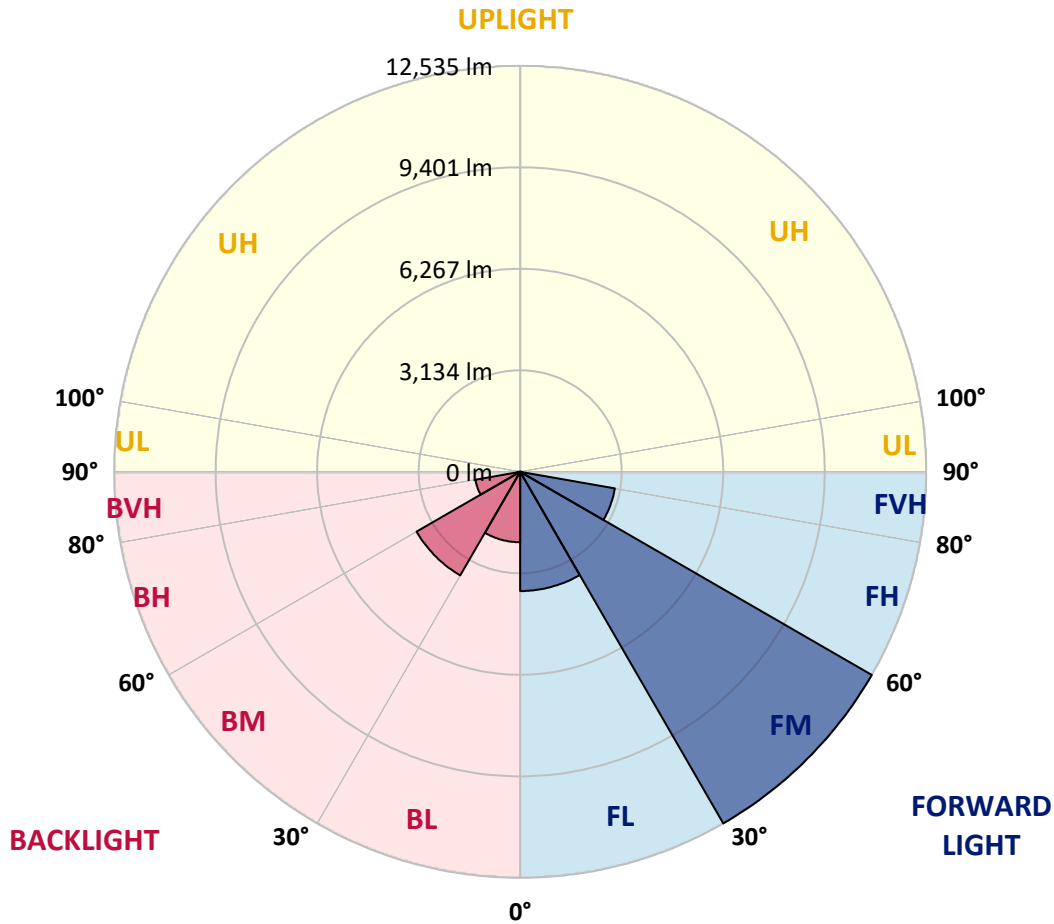
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3680.7	13.8			
FM (30°-60°)	12534.7	47.1			
FH (60°-80°)	2968.4	11.2			G2/5000
FVH (80°-90°)	51.4	0.2			G1/100
BL (0°-30°)	2174.3	8.2	B3/2500		
BM (30°-60°)	3692.3	13.9	B3/5000		
BH (60°-80°)	1405.5	5.3	B3/2500		G3/2500
BVH (80°-90°)	84.7	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°	54°	55°	65°	75°	85°
0°	10336.0	10336.0	10336.0	10336.0	10336.0	10336.0	10336.0	10336.0	10336.0	10336.0	10336.0
2.5°	10630.0	10588.9	10595.8	10650.5	10582.1	10554.8	10554.8	10421.5	10431.7	10339.4	10315.5
5°	10383.9	10288.2	10353.1	10435.1	10448.8	10476.1	10520.6	10486.4	10390.7	10291.6	10130.9
7.5°	9741.3	9826.7	9850.7	9908.8	10031.8	10144.6	10284.7	10189.0	10185.6	10086.5	9990.8
10°	9177.3	9126.0	9255.9	9341.4	9546.4	9734.4	9949.8	9939.5	9990.8	9878.0	9713.9
12.5°	8616.8	8575.7	8637.3	8832.1	9119.2	9392.6	9649.0	9553.3	9826.7	9806.2	9454.2
15°	8022.0	8052.8	8141.7	8322.8	8698.8	9026.9	9351.6	9355.0	9597.7	9679.8	9208.1
17.5°	7605.0	7570.9	7683.6	7953.7	8288.6	8681.7	9050.8	9126.0	9498.6	9546.4	9132.9
20°	7294.0	7341.8	7488.8	7625.5	8011.8	8486.9	8903.9	8931.2	9478.1	9608.0	9013.2
22.5°	7218.8	7191.5	7239.3	7461.5	7779.3	8295.5	8825.3	8927.8	9474.7	9587.5	8787.7
25°	7140.2	7229.1	7225.6	7447.8	7680.2	8141.7	8890.2	9003.0	9655.8	9693.4	8818.4
27.5°	7317.9	7307.7	7403.4	7420.5	7707.6	8182.7	9026.9	9112.4	9956.6	9925.8	8842.3
30°	7495.7	7444.4	7502.5	7704.2	7837.5	8418.5	9402.9	9396.1	10346.3	10325.8	8917.5
32.5°	7714.4	7690.5	7728.1	7905.8	8131.4	8733.0	9720.8	9922.4	10742.7	10872.6	9177.3
35°	7755.4	7854.5	7943.4	8182.7	8504.0	9242.2	10318.9	10486.4	11200.8	11607.5	9672.9
37.5°	8015.2	8052.8	8261.3	8685.1	8979.1	9922.4	10698.3	10804.3	11617.8	12079.2	10195.9
40°	8292.0	8336.5	8650.9	9095.3	9498.6	10366.8	11053.8	11088.0	11751.1	12441.5	10537.7
42.5°	8668.0	8709.0	9020.1	9577.2	10117.3	10746.2	11368.2	11405.8	11740.8	12858.5	11081.1
45°	9057.7	9156.8	9522.5	10154.9	10640.2	11190.5	11440.0	11593.8	11836.5	13231.0	11522.0
47.5°	9604.6	9696.8	9997.6	10616.3	11183.7	11580.2	11771.6	11922.0	12065.5	13555.8	11805.7
50°	10185.6	10202.7	10568.4	11129.0	11546.0	12021.1	12390.2	12441.5	12366.3	13931.7	12287.7
52.5°	10612.9	10667.6	10951.2	11498.1	12120.2	12704.7	13210.5	13265.2	13118.3	14071.9	12451.7
55°	9905.3	9874.6	10336.0	11064.0	12506.4	13723.2	14458.1	14499.1	13665.1	14506.0	12988.4
57.5°	7656.3	7803.3	8196.3	9074.8	11111.9	14174.4	15422.0	15275.0	14321.4	14724.7	13330.2
60°	5564.5	5530.3	5793.5	6381.4	8374.1	12215.9	14581.2	14731.5	13784.8	13272.1	10992.3
62.5°	4532.3	4484.4	4504.9	4525.4	5403.8	8107.5	10794.0	10790.6	10616.3	9539.6	7413.6
65°	3623.1	3735.9	3746.1	3899.9	4012.7	4843.3	6254.9	6589.9	5738.8	4706.6	3414.6
67.5°	2731.0	2690.0	2826.7	3373.6	3585.5	3496.6	3414.6	3452.2	2454.1	1770.5	1668.0
70°	1609.9	1592.8	1756.8	2351.6	2953.1	2778.8	2573.7	2577.2	1685.1	1237.3	1377.5
72.5°	881.8	878.4	912.6	1192.9	1678.2	1743.2	1544.9	1592.8	1004.9	1001.5	1076.7
75°	492.2	481.9	471.7	526.4	605.0	639.2	652.8	659.7	690.4	772.5	803.2
77.5°	181.2	174.3	174.3	201.7	256.3	321.3	406.7	413.6	488.8	560.6	591.3
80°	61.5	68.4	92.3	126.5	170.9	229.0	276.9	283.7	345.2	393.1	403.3
82.5°	37.6	41.0	61.5	88.9	123.0	160.6	205.1	208.5	256.3	287.1	300.8
85°	17.1	20.5	34.2	54.7	78.6	106.0	109.4	109.4	106.0	109.4	102.5
87.5°	0.0	0.0	6.8	6.8	6.8	10.3	13.7	10.3	17.1	20.5	20.5
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°	10336.0	10336.0	10336.0	10336.0	10336.0	10336.0	10336.0	10336.0	10336.0	10336.0	10336.0
2.5°	10243.7	10206.1	10089.9	9987.4	9956.6	9819.9	9618.2	9642.2	9495.2	9563.5	9491.8
5°	10103.6	9977.1	9679.8	9553.3	9221.7	9071.3	8968.8	8712.5	8592.8	8568.9	8466.4
7.5°	9744.7	9666.1	9293.5	8951.7	8599.7	8298.9	7912.6	7649.5	7461.5	7410.2	7259.8
10°	9461.0	9286.7	8770.6	8251.0	7748.6	7225.6	6723.2	6330.1	6138.7	5916.5	5841.3
12.5°	9180.7	8917.5	8220.3	7553.8	6904.3	6244.7	5636.3	5157.7	4740.8	4641.6	4607.5
15°	9006.4	8548.4	7728.1	6924.9	6002.0	5140.7	4532.3	4217.8	3961.5	3855.5	3930.7
17.5°	8777.4	8244.2	7256.4	6186.6	5171.4	4378.4	3869.2	3674.3	3582.1	3592.3	3561.5
20°	8490.3	7957.1	6637.7	5516.6	4429.7	3797.4	3506.9	3435.1	3448.8	3472.7	3462.4
22.5°	8285.2	7608.4	6190.0	4833.0	3828.2	3476.1	3356.5	3305.2	3349.6	3370.1	3353.0
25°	8128.0	7311.1	5646.5	4228.1	3479.5	3294.9	3240.3	3236.8	3305.2	3332.5	3315.5
27.5°	7984.4	7034.2	5106.5	3766.6	3247.1	3154.8	3137.7	3178.7	3223.2	3250.5	3274.4
30°	7899.0	6822.3	4600.6	3380.4	3130.9	3086.4	3055.7	3093.3	3117.2	3144.6	3130.9
32.5°	7981.0	6671.9	4111.8	3161.6	3035.2	2990.7	3031.8	3007.8	3048.8	3072.8	3035.2
35°	8237.4	6538.6	3763.2	3045.4	2925.8	2942.9	2949.7	2939.5	2956.6	2936.1	2980.5
37.5°	8490.3	6490.8	3441.9	2946.3	2874.5	2874.5	2867.7	2847.2	2881.4	2874.5	2895.0
40°	8811.6	6521.5	3168.5	2840.4	2826.7	2819.8	2792.5	2789.1	2775.4	2778.8	2785.7
42.5°	9091.9	6589.9	3011.3	2772.0	2782.2	2795.9	2744.6	2703.6	2720.7	2686.5	2686.5
45°	9389.2	6651.4	2871.1	2724.1	2713.9	2710.5	2669.5	2645.5	2631.9	2635.3	2666.0
47.5°	9857.5	6740.3	2765.2	2659.2	2666.0	2614.8	2604.5	2573.7	2587.4	2607.9	2611.3
50°	10189.0	6928.3	2683.1	2584.0	2607.9	2573.7	2512.2	2498.6	2498.6	2532.7	2525.9
52.5°	10421.5	7191.5	2604.5	2502.0	2512.2	2484.9	2464.4	2433.6	2413.1	2461.0	2484.9
55°	11132.4	7629.0	2584.0	2433.6	2430.2	2402.8	2365.3	2334.5	2324.2	2331.1	2378.9
57.5°	11064.0	7492.2	2519.1	2314.0	2307.1	2269.5	2231.9	2221.7	2218.3	2225.1	2238.8
60°	8982.5	5533.7	2249.0	2177.3	2167.0	2160.2	2122.6	2081.6	2061.0	2081.6	2064.5
62.5°	5943.9	3705.1	1982.4	2013.2	2020.0	2002.9	1941.4	1900.4	1907.2	1931.2	1893.6
65°	2919.0	2177.3	1797.9	1879.9	1886.7	1838.9	1780.8	1732.9	1709.0	1729.5	1712.4
67.5°	1668.0	1664.6	1647.5	1732.9	1729.5	1681.7	1589.4	1548.4	1507.3	1514.2	1503.9
70°	1415.0	1442.4	1476.6	1527.8	1524.4	1469.7	1360.4	1329.6	1271.5	1264.7	1247.6
72.5°	1114.3	1162.1	1237.3	1274.9	1244.1	1175.8	1104.0	1052.7	1001.5	970.7	981.0
75°	827.2	895.5	936.5	960.5	912.6	875.0	816.9	755.4	693.9	666.5	656.3
77.5°	601.6	622.1	659.7	676.8	646.0	608.4	574.2	512.7	454.6	417.0	406.7
80°	420.4	434.1	461.4	461.4	461.4	444.3	399.9	338.4	300.8	266.6	259.8
82.5°	293.9	307.6	335.0	321.3	317.9	297.4	270.0	222.2	181.2	157.2	150.4
85°	102.5	112.8	136.7	164.1	174.3	170.9	153.8	123.0	95.7	78.6	71.8
87.5°	23.9	23.9	27.3	23.9	23.9	27.3	23.9	23.9	23.9	17.1	13.7
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)