

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: P651123

Luminaire Tested: **GALN-SA9C-840-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651123
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-840-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31346.6 lumens
Efficiency: N/A
Efficacy: 65.2 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

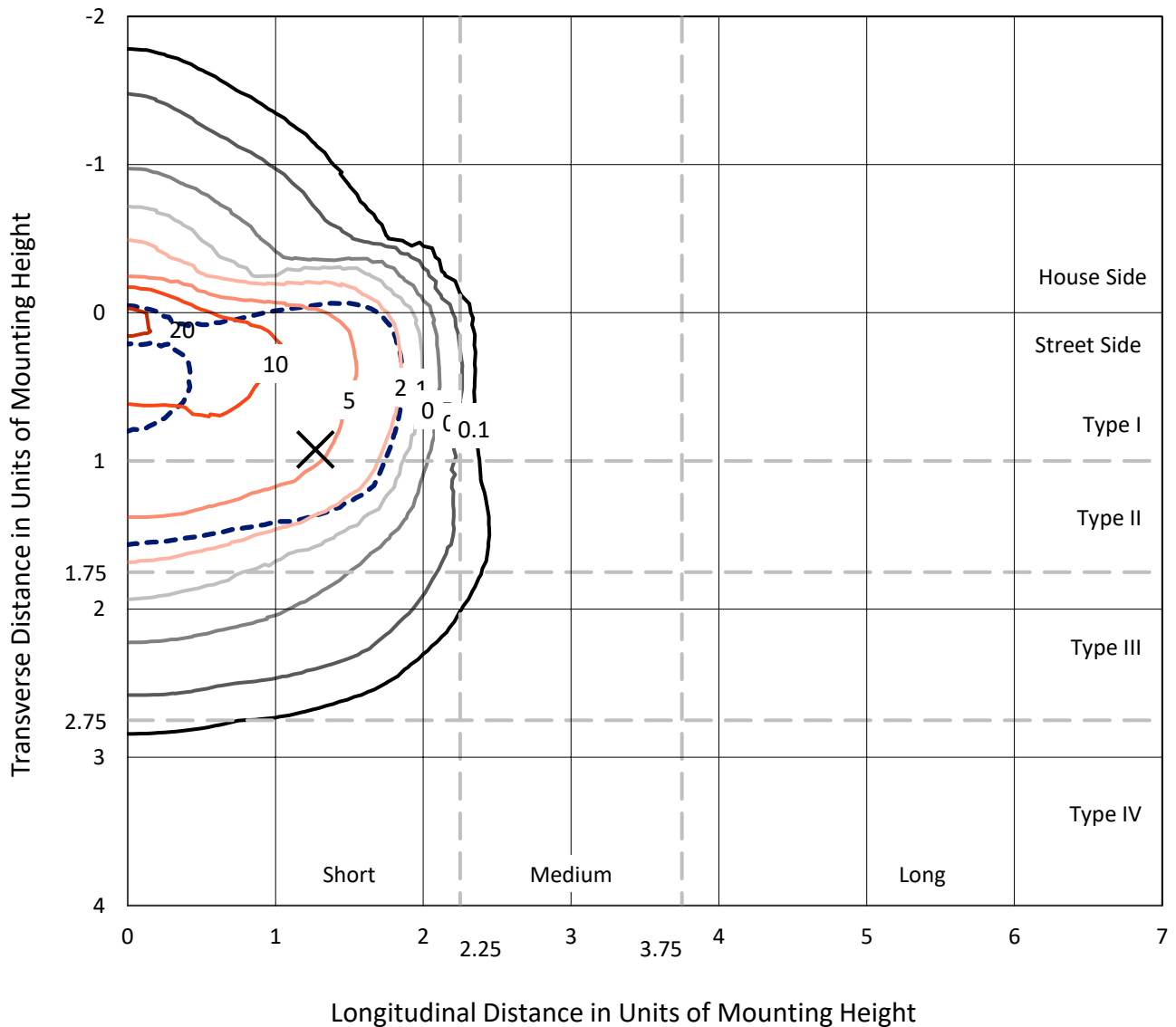
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

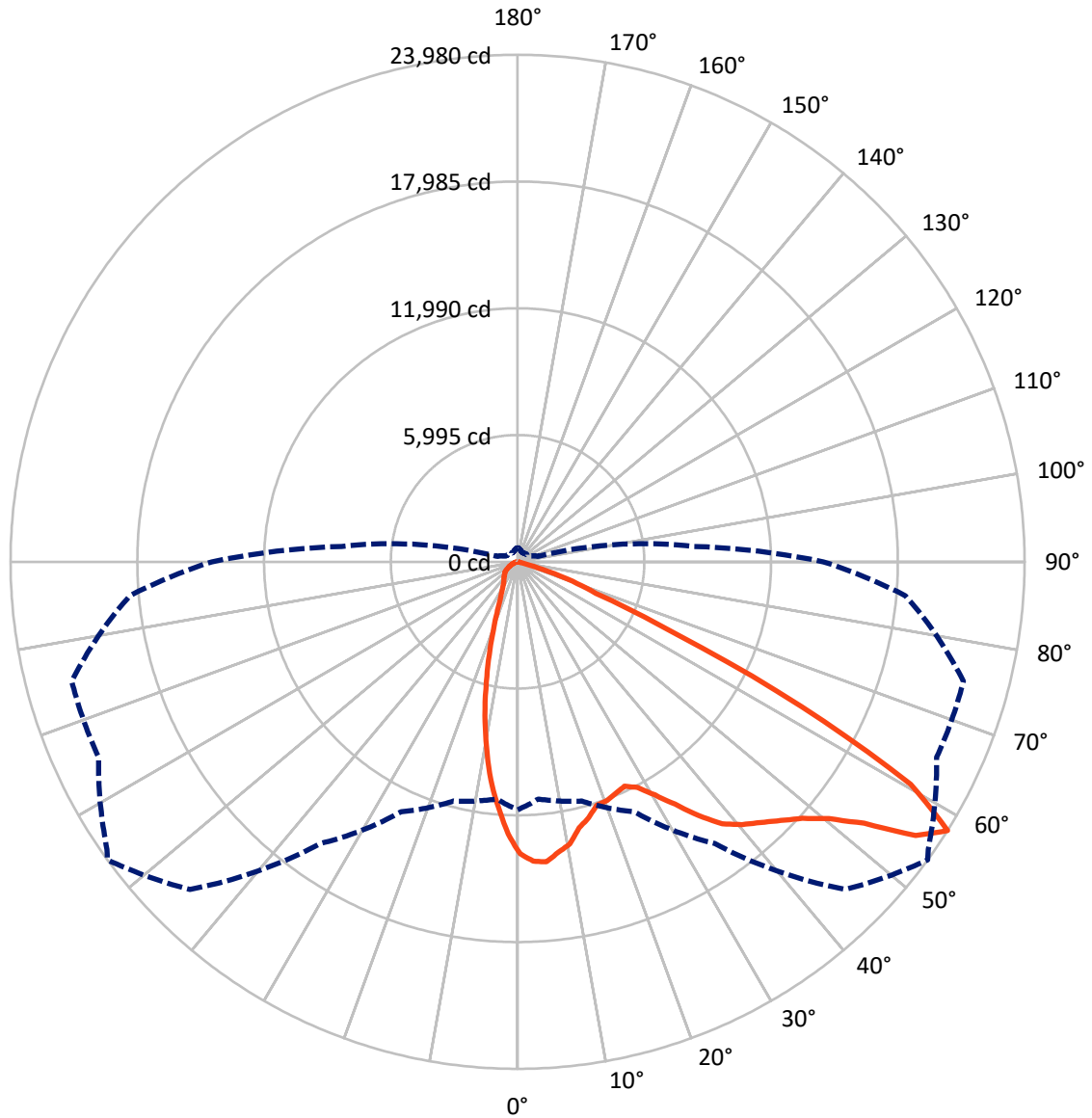
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.1 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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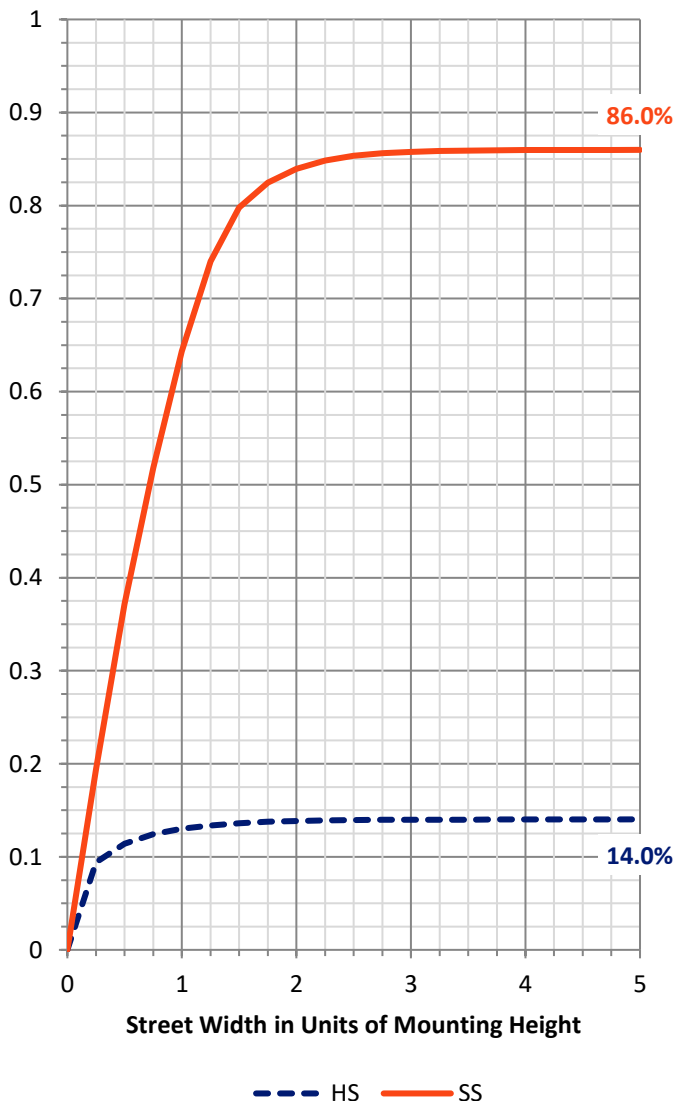
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4429.8	0.0	4429.8
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	26916.8	0.0	26916.8
	% Fixture	85.9	0.0	85.9
Total	Lumens	31346.6	0.0	31346.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1155.5	3.7
10°-20°	2467.0	7.9
20°-30°	3269.3	10.4
30°-40°	4751.2	15.2
40°-50°	7045.4	22.5
50°-60°	8810.0	28.1
60°-70°	3475.1	11.1
70°-80°	346.0	1.1
80°-90°	26.9	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°	31346.6	100.0
0°-180°	31346.6	100.0

Coefficient of Utilization



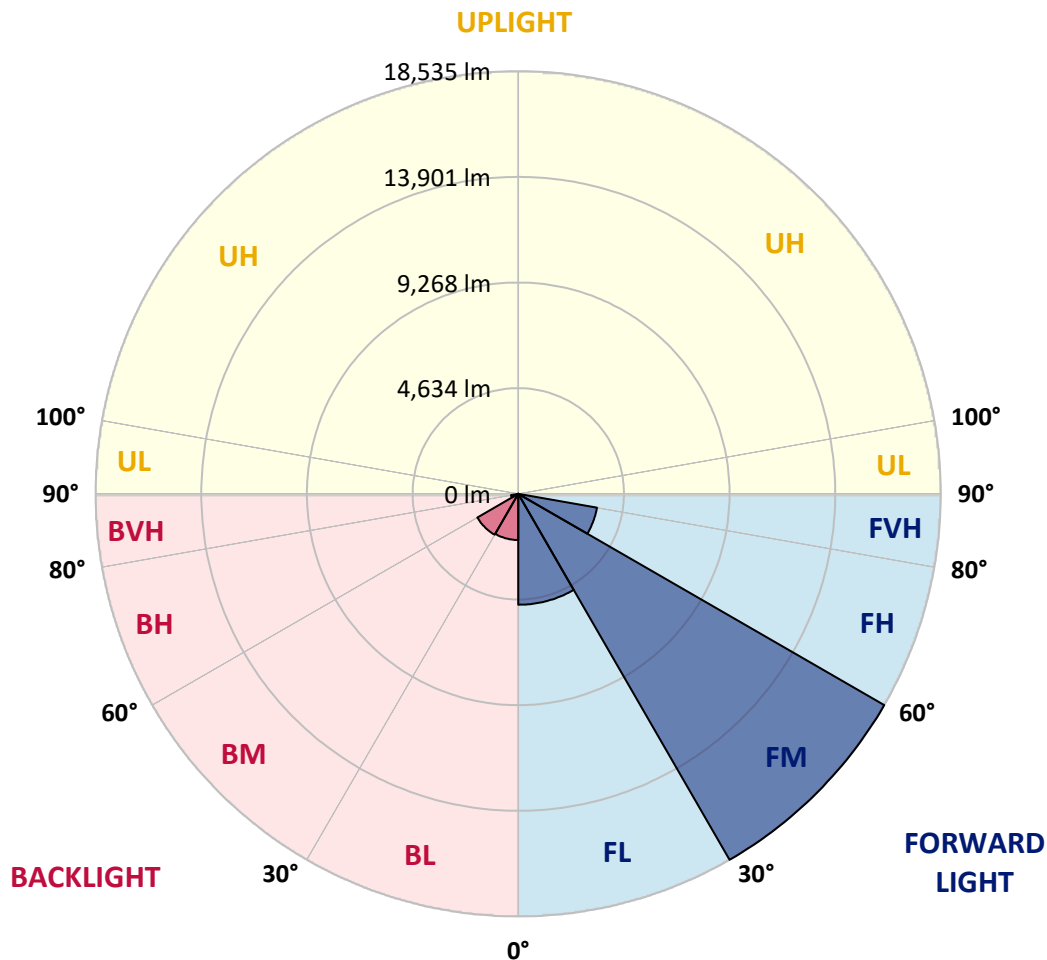
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4865.9	15.5			
FM (30°-60°)	18535.2	59.1			
FH (60°-80°)	3503.5	11.2			G2/5000
FVH (80°-90°)	12.2	0.0			G1/100
BL (0°-30°)	2026.0	6.5	B3/2500		
BM (30°-60°)	2071.5	6.6	B2/2500		
BH (60°-80°)	317.7	1.0	B1/500		G1/500
BVH (80°-90°)	14.7	0.0			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°	54°	55°	65°	75°	85°
0°	13808.6	13808.6	13808.6	13808.6	13808.6	13808.6	13808.6	13808.6	13808.6	13808.6	13808.6
2.5°	14613.0	14461.4	14473.1	14420.6	14350.7	14403.1	14175.8	14228.3	14222.5	13913.5	13709.5
5°	14245.8	14408.9	14239.9	14379.8	14245.8	14391.4	14251.6	14146.6	13977.7	13750.3	13371.4
7.5°	13622.1	13464.7	13511.3	13686.2	13715.4	14041.8	13866.9	14001.0	13931.0	13482.2	12963.4
10°	12368.8	12333.9	12567.1	12800.2	13085.8	13435.6	13569.6	13493.8	13441.4	13272.3	12578.7
12.5°	11407.1	11506.2	11500.3	11885.1	12368.8	12567.1	12916.8	12905.1	13196.6	12881.8	12217.3
15°	10492.0	10544.5	10789.3	11028.2	11564.5	12129.9	12561.2	12619.5	12969.2	12747.7	11937.5
17.5°	9932.4	9856.6	10048.9	10334.6	10882.5	11622.8	12100.7	12240.7	12718.6	12671.9	11616.9
20°	9378.7	9378.7	9536.0	9874.1	10375.4	11208.9	12059.9	12019.2	12718.6	12584.6	11273.0
22.5°	9192.1	9285.4	9326.2	9582.7	10177.2	10894.1	11885.1	11960.9	12817.7	12543.8	11121.5
25°	9448.6	9326.2	9337.9	9541.9	10101.4	10742.6	11756.8	11925.9	12998.4	12747.7	10999.1
27.5°	9489.4	9611.8	9646.8	9786.7	10159.7	10789.3	12077.4	12421.3	13447.2	13225.7	11034.1
30°	9845.0	9967.4	9961.6	10200.5	10457.0	11168.1	12794.4	12864.4	14374.0	13826.1	11249.7
32.5°	10276.3	10404.5	10445.3	10725.1	10929.1	11861.7	13668.7	13849.4	15265.8	14770.4	11815.1
35°	10812.6	10765.9	10952.4	11232.2	11669.4	12876.0	14735.4	15038.5	16227.6	15994.4	12398.0
37.5°	11482.8	11424.6	11605.3	12059.9	12654.4	14076.7	15720.5	15918.6	16927.1	17131.1	13476.4
40°	11955.0	11978.4	12526.3	13138.3	13767.8	15219.2	16344.2	16536.5	17416.7	18191.9	14292.4
42.5°	12741.9	12887.7	13546.3	14292.4	14951.0	16076.1	16851.3	17037.8	17644.0	19042.9	15394.1
45°	13884.4	13820.2	14548.9	15382.4	16111.0	16967.8	17451.7	17387.5	17778.1	19888.1	16087.7
47.5°	15353.2	15364.9	15848.7	16559.8	17317.5	17743.1	18122.0	17894.6	18057.9	20779.9	17014.4
50°	16355.9	16443.2	16833.8	17562.4	17941.3	18594.1	19077.9	18938.0	18885.6	21316.2	17597.3
52.5°	16612.3	16874.6	17084.4	17993.7	18879.7	19911.4	20529.3	20826.5	19893.9	21496.9	18337.7
55°	14677.1	14910.3	15650.5	16897.9	19235.3	21998.1	22849.2	22855.0	21211.3	22301.3	18856.4
57.5°	11733.5	11261.4	11716.1	13039.2	16262.6	21910.7	23979.9	23706.0	21870.0	21829.2	18407.6
60°	8113.8	7997.2	8026.3	8551.0	11255.5	17428.3	21368.6	21724.2	20138.8	18920.5	14572.2
62.5°	6429.3	6330.1	6202.0	6143.6	6988.8	10859.2	15073.5	15574.7	14082.5	12269.8	8638.4
65°	5036.2	4977.9	4995.4	5228.5	5222.7	6161.1	8242.1	8038.0	6435.1	4756.4	2716.3
67.5°	3398.2	3485.7	3555.6	4260.9	4622.3	4290.0	3981.1	3864.6	2092.6	880.2	600.4
70°	1911.8	1923.5	1999.3	2663.8	3509.0	3328.3	2745.4	2745.4	1043.3	320.6	343.9
72.5°	1043.3	1008.4	938.5	1148.3	1562.2	1585.5	1224.1	1066.7	308.9	209.8	192.3
75°	507.1	501.3	431.3	355.6	338.1	279.8	215.6	198.1	139.9	134.1	116.6
77.5°	105.0	99.1	52.5	52.5	58.3	64.1	81.6	81.6	99.1	99.1	81.6
80°	0.0	0.0	5.8	23.3	40.8	58.3	70.0	70.0	81.6	81.6	64.1
82.5°	0.0	0.0	5.8	17.5	35.0	52.5	64.1	70.0	81.6	87.5	70.0
85°	0.0	0.0	0.0	11.7	29.2	40.8	35.0	35.0	29.2	23.3	11.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	13808.6	13808.6	13808.6	13808.6	13808.6	13808.6	13808.6	13808.6	13808.6	13808.6	13808.6
2.5°	13604.6	13592.9	13324.8	13173.3	12899.3	12660.3	12468.0	12328.1	12328.1	12240.7	12159.0
5°	13219.8	13120.8	12549.6	12182.3	11663.6	11278.9	11016.6	10812.6	10492.0	10579.4	10235.5
7.5°	12741.9	12491.3	11733.5	11173.9	10457.0	9909.1	9349.5	8854.0	8376.1	8160.4	8277.0
10°	12229.0	11791.8	10771.8	9885.8	8994.0	7991.4	7338.6	6545.8	6056.2	6027.0	5898.9
12.5°	11686.9	11191.4	9949.9	8725.8	7554.2	6347.6	5350.9	4610.6	4278.4	3911.2	3981.1
15°	11278.9	10544.5	9034.8	7560.1	6003.7	4785.5	3782.9	3211.7	2896.9	2809.5	2780.3
17.5°	10835.9	10048.9	8102.1	6318.5	4709.8	3444.9	2722.1	2448.2	2325.7	2325.7	2308.2
20°	10375.4	9489.4	7175.3	5164.4	3532.3	2570.5	2180.0	2092.6	2086.8	2080.9	2080.9
22.5°	10072.3	8848.2	6336.0	4103.5	2663.8	2057.6	1894.4	1859.5	1882.7	1952.6	1952.6
25°	9751.7	8230.4	5409.2	3165.1	2063.4	1766.2	1672.9	1696.2	1754.5	1818.6	1795.3
27.5°	9425.3	7828.2	4534.8	2483.1	1690.4	1544.7	1509.7	1562.2	1626.2	1684.5	1667.0
30°	9349.5	7396.8	3707.1	1882.7	1451.4	1346.4	1369.8	1416.4	1480.5	1503.9	1527.2
32.5°	9466.1	7058.8	3036.9	1544.7	1264.9	1235.7	1235.7	1259.1	1299.8	1352.3	1334.8
35°	9798.3	6866.4	2401.5	1340.6	1159.9	1130.8	1125.0	1148.3	1171.6	1189.1	1171.6
37.5°	10305.4	6714.9	1964.3	1189.1	1090.0	1043.3	1031.7	1025.9	1049.2	1055.0	1066.7
40°	10952.4	6796.5	1667.0	1095.8	1020.0	967.6	932.6	932.6	932.6	950.1	956.0
42.5°	11651.9	6907.2	1439.7	1043.3	956.0	891.8	856.8	845.2	856.8	880.2	874.3
45°	12386.3	7122.8	1294.0	961.8	897.7	816.0	769.4	757.7	786.9	833.5	827.7
47.5°	13074.2	7431.8	1183.3	909.3	839.3	763.5	705.3	693.7	746.1	810.2	816.0
50°	13762.0	7968.1	1142.5	868.5	798.5	711.1	658.7	647.0	705.3	786.9	804.4
52.5°	14554.7	8545.1	1113.3	816.0	751.9	670.4	612.0	600.4	664.5	769.4	775.2
55°	15073.5	9034.8	1090.0	722.8	664.5	606.2	559.6	553.7	623.7	717.0	740.2
57.5°	14467.2	8352.8	1008.4	629.5	565.4	536.2	495.4	495.4	553.7	641.2	658.7
60°	10969.9	5496.6	717.0	507.1	477.9	460.4	443.0	443.0	489.6	553.7	559.6
62.5°	6423.4	2961.1	460.4	408.1	408.1	390.6	361.4	361.4	408.1	443.0	448.8
65°	1906.0	950.1	373.1	349.8	343.9	314.8	285.6	279.8	314.8	332.3	326.4
67.5°	547.9	437.2	308.9	291.4	285.6	239.0	221.5	215.6	221.5	209.8	204.0
70°	326.4	297.3	239.0	244.8	215.6	174.8	157.4	151.5	139.9	122.4	110.8
72.5°	180.7	180.7	174.8	186.5	151.5	116.6	99.1	81.6	64.1	52.5	46.6
75°	110.8	116.6	122.4	128.3	99.1	75.8	64.1	40.8	23.3	11.7	11.7
77.5°	75.8	81.6	87.5	93.3	81.6	70.0	52.5	29.2	5.8	0.0	0.0
80°	58.3	64.1	75.8	81.6	87.5	93.3	70.0	29.2	5.8	0.0	0.0
82.5°	64.1	70.0	87.5	81.6	81.6	81.6	64.1	29.2	5.8	0.0	0.0
85°	11.7	17.5	29.2	29.2	40.8	52.5	40.8	11.7	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)