

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: P652553

Luminaire Tested: **GALN-SA8B-840-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652553
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-SA8B-840-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 800mA 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: 22598.5 lumens
Efficiency: N/A
Efficacy: 69.5 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

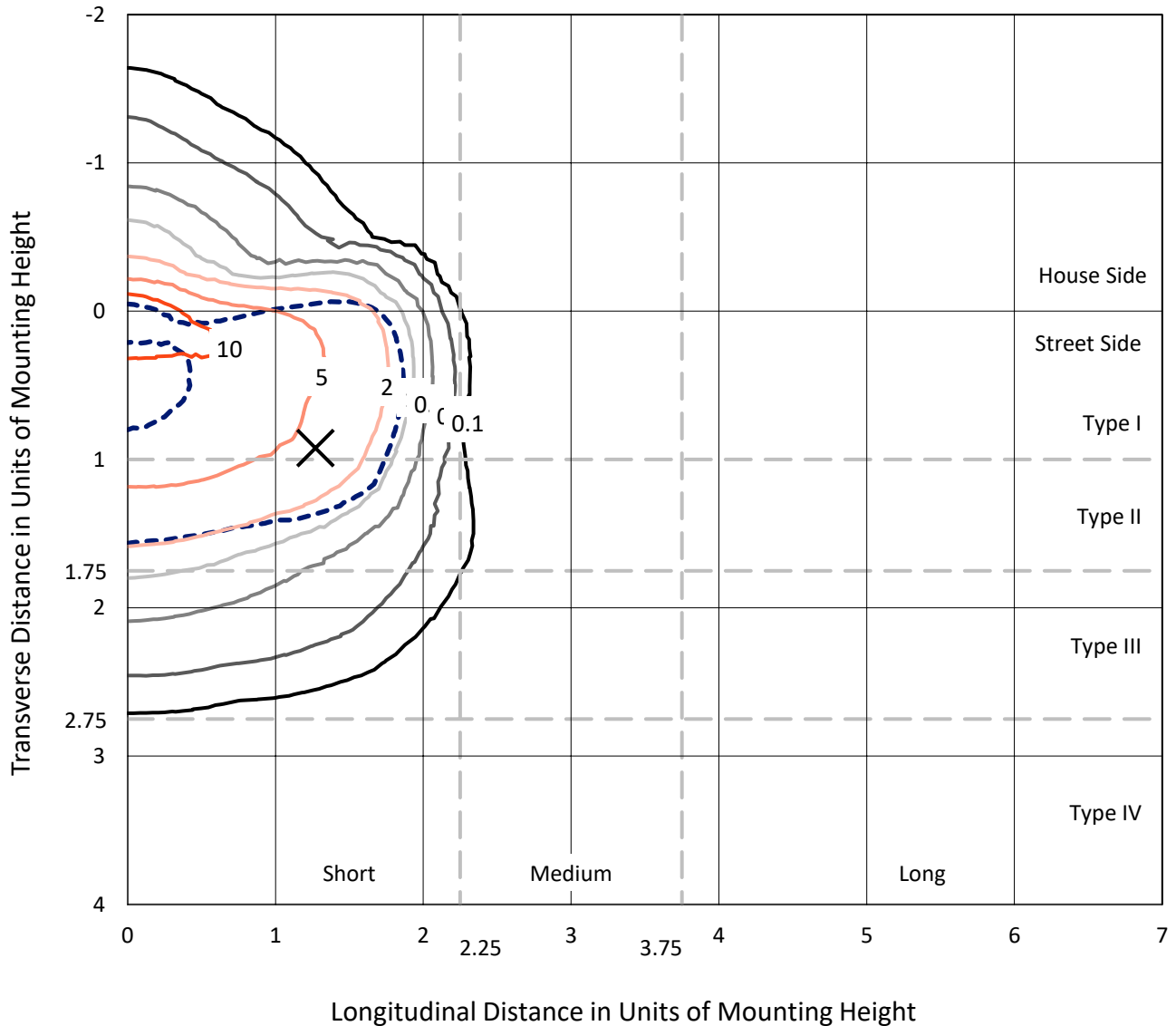
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

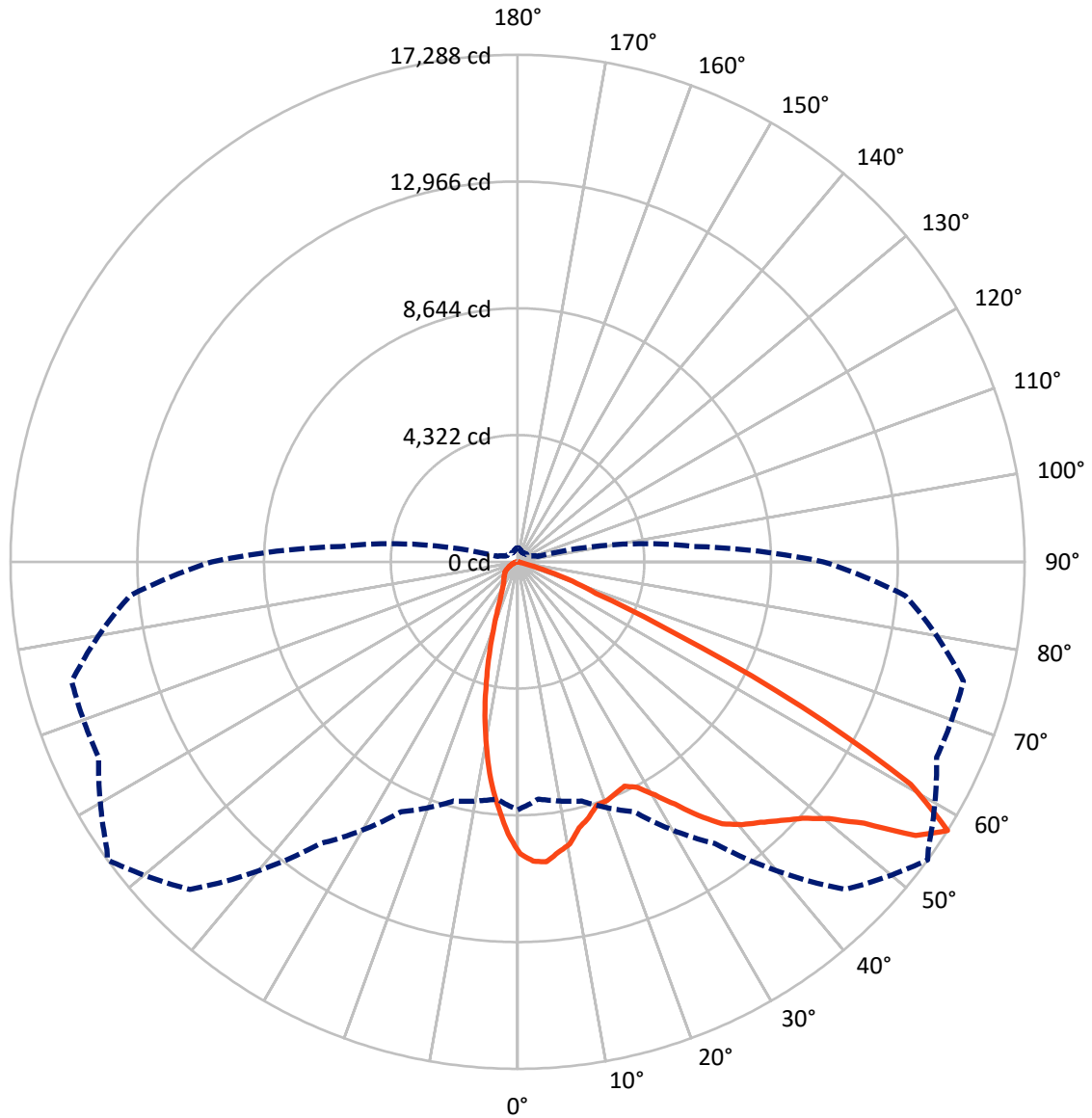
✕ Max cd
 - - - 1/2 Max cd



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

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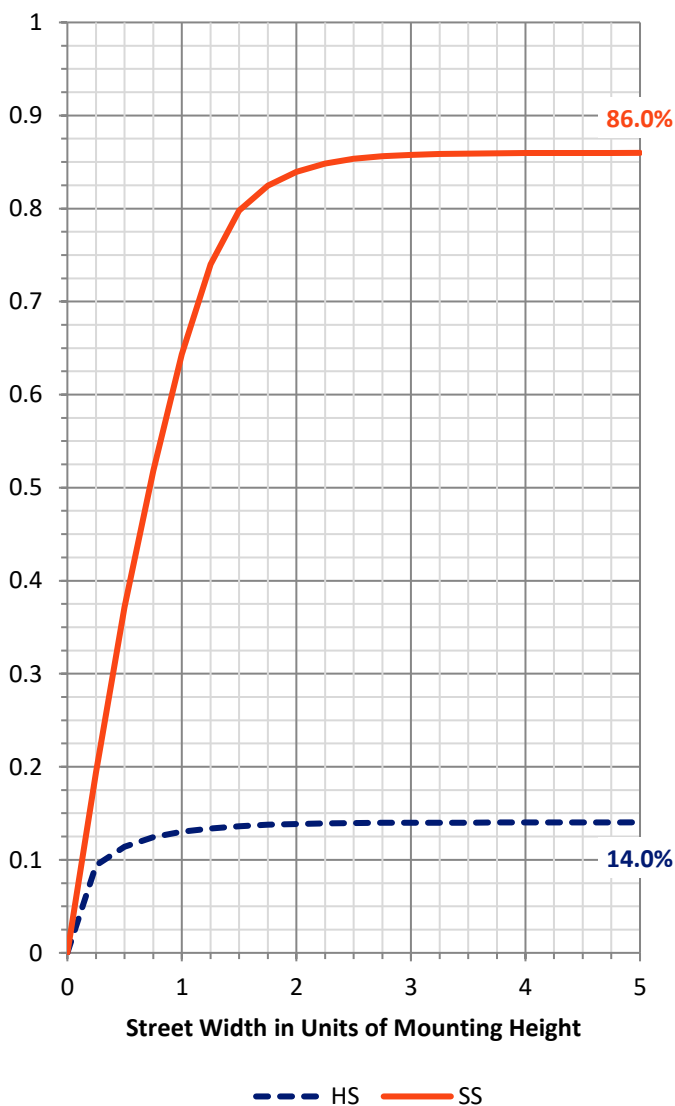
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3193.6	0.0	3193.6
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	19405.0	0.0	19405.0
	% Fixture	85.9	0.0	85.9
Total	Lumens	22598.5	0.0	22598.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	833.1	3.7
10°-20°	1778.5	7.9
20°-30°	2356.9	10.4
30°-40°	3425.3	15.2
40°-50°	5079.2	22.5
50°-60°	6351.3	28.1
60°-70°	2505.3	11.1
70°-80°	249.4	1.1
80°-90°	19.4	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°	22598.5	100.0
0°-180°	22598.5	100.0



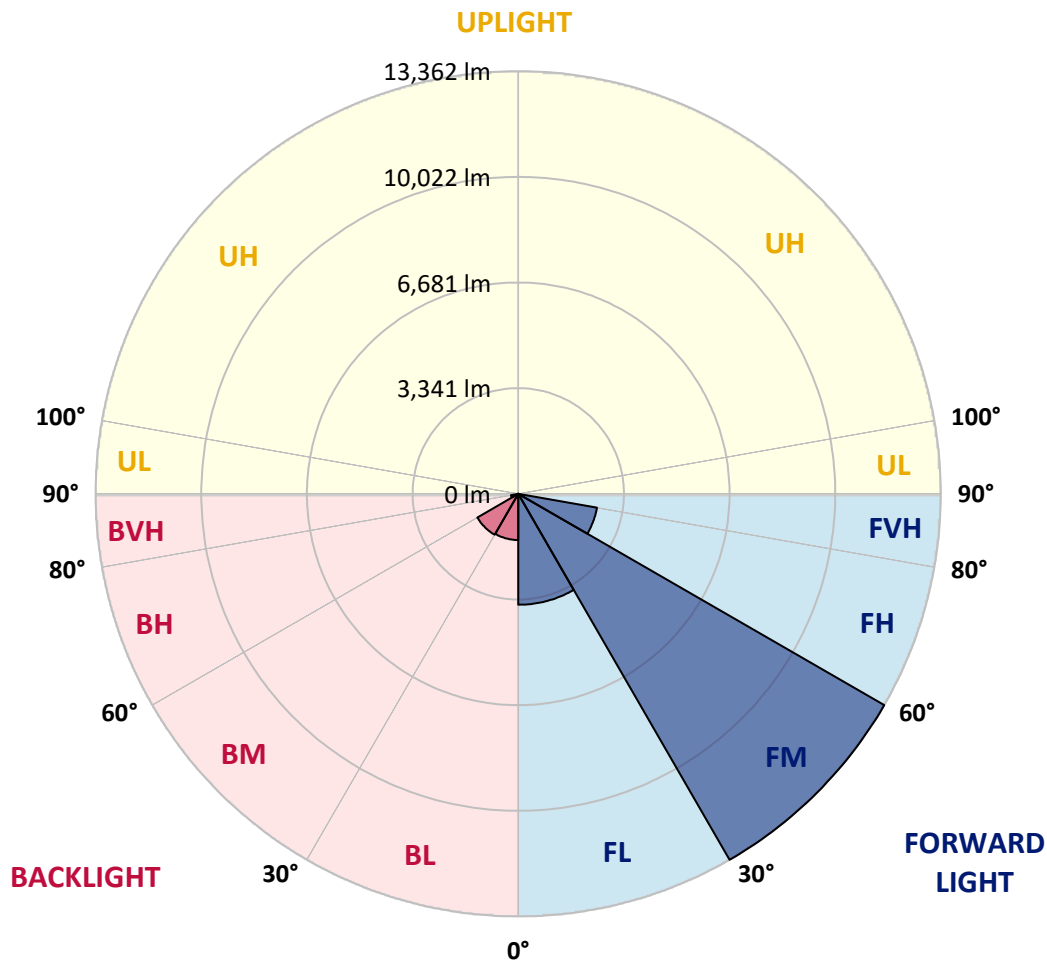
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3507.9	15.5			
FM (30°-60°)	13362.5	59.1			
FH (60°-80°)	2525.8	11.2			G2/5000
FVH (80°-90°)	8.8	0.0			G0/10
BL (0°-30°)	1460.6	6.5	B3/2500		
BM (30°-60°)	1493.4	6.6	B2/2500		
BH (60°-80°)	229.0	1.0	B1/500		G1/500
BVH (80°-90°)	10.6	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°	9954.9	9954.9	9954.9	9954.9	9954.9	9954.9	9954.9	9954.9	9954.9	9954.9	9954.9
2.5°	10534.9	10425.6	10434.0	10396.2	10345.7	10383.6	10219.7	10257.5	10253.3	10030.6	9883.5
5°	10270.1	10387.8	10265.9	10366.8	10270.1	10375.2	10274.3	10198.6	10076.8	9913.0	9639.8
7.5°	9820.4	9707.0	9740.6	9866.7	9887.7	10123.0	9997.0	10093.6	10043.2	9719.6	9345.6
10°	8917.0	8891.8	9059.9	9228.0	9433.9	9686.0	9782.7	9728.0	9690.2	9568.3	9068.3
12.5°	8223.6	8295.1	8290.9	8568.2	8917.0	9059.9	9312.1	9303.6	9513.7	9286.8	8807.8
15°	7563.9	7601.7	7778.2	7950.5	8337.1	8744.7	9055.7	9097.7	9349.8	9190.1	8606.0
17.5°	7160.5	7105.9	7244.5	7450.4	7845.4	8379.1	8723.7	8824.5	9169.2	9135.5	8374.9
20°	6761.3	6761.3	6874.8	7118.5	7479.9	8080.7	8694.3	8664.9	9169.2	9072.5	8127.0
22.5°	6626.8	6694.0	6723.5	6908.4	7337.0	7853.8	8568.2	8622.9	9240.6	9043.1	8017.8
25°	6811.8	6723.5	6731.9	6879.0	7282.4	7744.6	8475.8	8597.6	9370.8	9190.1	7929.5
27.5°	6841.1	6929.4	6954.6	7055.5	7324.4	7778.2	8706.9	8954.8	9694.4	9534.8	7954.7
30°	7097.5	7185.8	7181.6	7353.8	7538.7	8051.4	9223.8	9274.2	10362.5	9967.5	8110.2
32.5°	7408.5	7500.9	7530.3	7732.0	7879.1	8551.5	9854.1	9984.4	11005.5	10648.3	8517.8
35°	7795.1	7761.4	7895.9	8097.6	8412.8	9282.6	10623.1	10841.6	11698.8	11530.8	8938.1
37.5°	8278.3	8236.2	8366.5	8694.3	9122.9	10148.3	11333.2	11476.1	12203.1	12350.2	9715.4
40°	8618.7	8635.5	9030.5	9471.7	9925.6	10971.9	11782.9	11921.6	12556.1	13115.0	10303.8
42.5°	9186.0	9291.0	9765.9	10303.8	10778.6	11589.6	12148.5	12283.0	12720.0	13728.5	11097.9
45°	10009.6	9963.3	10488.6	11089.5	11614.8	12232.5	12581.3	12535.1	12816.6	14337.8	11598.0
47.5°	11068.5	11076.9	11425.7	11938.4	12484.6	12791.4	13064.5	12900.7	13018.3	14980.7	12266.2
50°	11791.3	11854.3	12135.9	12661.2	12934.3	13405.0	13753.7	13652.9	13615.0	15367.3	12686.4
52.5°	11976.2	12165.3	12316.5	12972.1	13610.8	14354.6	14800.1	15014.4	14342.0	15497.6	13220.0
55°	10581.0	10749.2	11282.9	12182.1	13867.2	15859.0	16472.5	16476.7	15291.7	16077.5	13594.0
57.5°	8458.9	8118.6	8446.3	9400.3	11724.0	15796.0	17287.8	17090.2	15766.6	15737.1	13270.5
60°	5849.4	5765.4	5786.4	6164.6	8114.4	12564.5	15405.2	15661.5	14518.5	13640.3	10505.4
62.5°	4635.0	4563.5	4471.1	4429.1	5038.4	7828.6	10866.8	11228.2	10152.5	8845.6	6227.6
65°	3630.7	3588.6	3601.2	3769.4	3765.2	4441.7	5941.8	5794.8	4639.2	3429.0	1958.2
67.5°	2449.8	2512.9	2563.3	3071.8	3332.3	3092.8	2870.1	2786.1	1508.6	634.5	432.9
70°	1378.3	1386.7	1441.3	1920.4	2529.7	2399.5	1979.2	1979.2	752.2	231.1	247.9
72.5°	752.2	727.0	676.6	827.8	1126.2	1143.0	882.5	769.0	222.7	151.3	138.7
75°	365.6	361.4	311.0	256.3	243.7	201.7	155.5	142.9	100.8	96.6	84.0
77.5°	75.6	71.4	37.8	37.8	42.0	46.3	58.9	58.9	71.4	71.4	58.9
80°	0.0	0.0	4.2	16.8	29.4	42.0	50.5	50.5	58.9	58.9	46.3
82.5°	0.0	0.0	4.2	12.6	25.2	37.8	46.3	50.5	58.9	63.0	50.5
85°	0.0	0.0	0.0	8.4	21.0	29.4	25.2	25.2	21.0	16.8	8.4
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°	9954.9	9954.9	9954.9	9954.9	9954.9	9954.9	9954.9	9954.9	9954.9	9954.9	9954.9
2.5°	9807.9	9799.5	9606.2	9496.9	9299.4	9127.1	8988.4	8887.6	8887.6	8824.5	8765.7
5°	9530.5	9459.1	9047.3	8782.6	8408.6	8131.2	7942.1	7795.1	7563.9	7626.9	7379.0
7.5°	9186.0	9005.3	8458.9	8055.6	7538.7	7143.7	6740.3	6383.1	6038.5	5883.0	5967.1
10°	8816.1	8501.0	7765.6	7126.9	6483.9	5761.2	5290.6	4719.0	4366.1	4345.0	4252.6
12.5°	8425.4	8068.1	7173.1	6290.7	5446.0	4576.1	3857.6	3323.9	3084.4	2819.6	2870.1
15°	8131.2	7601.7	6513.4	5450.2	4328.2	3450.0	2727.2	2315.4	2088.5	2025.5	2004.4
17.5°	7811.9	7244.5	5841.0	4555.2	3395.4	2483.5	1962.4	1764.9	1676.7	1676.7	1664.1
20°	7479.9	6841.1	5172.9	3723.1	2546.5	1853.1	1571.6	1508.6	1504.4	1500.2	1500.2
22.5°	7261.4	6378.9	4567.7	2958.3	1920.4	1483.4	1365.7	1340.5	1357.3	1407.7	1407.7
25°	7030.3	5933.5	3899.6	2281.8	1487.6	1273.3	1206.0	1222.8	1264.9	1311.1	1294.3
27.5°	6794.9	5643.5	3269.3	1790.2	1218.6	1113.6	1088.3	1126.2	1172.4	1214.4	1201.8
30°	6740.3	5332.5	2672.6	1357.3	1046.4	970.7	987.5	1021.1	1067.3	1084.1	1101.0
32.5°	6824.3	5088.8	2189.3	1113.6	911.9	890.9	890.9	907.7	937.1	974.9	962.3
35°	7063.8	4950.1	1731.3	966.5	836.2	815.2	811.1	827.8	844.6	857.2	844.6
37.5°	7429.5	4840.9	1416.2	857.2	785.8	752.2	743.8	739.6	756.4	760.6	769.0
40°	7895.9	4899.8	1201.8	790.0	735.4	697.5	672.4	672.4	672.4	685.0	689.1
42.5°	8400.2	4979.6	1038.0	752.2	689.1	642.9	617.7	609.3	617.7	634.5	630.3
45°	8929.7	5135.1	932.9	693.3	647.1	588.3	554.7	546.3	567.3	600.9	596.7
47.5°	9425.5	5357.8	853.0	655.6	605.1	550.5	508.5	500.1	537.9	584.1	588.3
50°	9921.4	5744.4	823.6	626.1	575.7	512.7	474.8	466.4	508.5	567.3	579.9
52.5°	10492.8	6160.4	802.7	588.3	542.1	483.2	441.2	432.9	479.0	554.7	558.9
55°	10866.8	6513.4	785.8	521.1	479.0	437.1	403.4	399.2	449.6	516.9	533.7
57.5°	10429.8	6021.7	727.0	453.8	407.6	386.6	357.2	357.2	399.2	462.2	474.8
60°	7908.5	3962.6	516.9	365.6	344.6	331.9	319.3	319.3	353.0	399.2	403.4
62.5°	4630.8	2134.7	331.9	294.2	294.2	281.6	260.5	260.5	294.2	319.3	323.5
65°	1374.1	685.0	269.0	252.1	247.9	226.9	205.9	201.7	226.9	239.5	235.3
67.5°	395.0	315.1	222.7	210.1	205.9	172.3	159.7	155.5	159.7	151.3	147.1
70°	235.3	214.3	172.3	176.5	155.5	126.1	113.5	109.2	100.8	88.2	79.8
72.5°	130.3	130.3	126.1	134.5	109.2	84.0	71.4	58.9	46.3	37.8	33.6
75°	79.8	84.0	88.2	92.4	71.4	54.7	46.3	29.4	16.8	8.4	8.4
77.5°	54.7	58.9	63.0	67.2	58.9	50.5	37.8	21.0	4.2	0.0	0.0
80°	42.0	46.3	54.7	58.9	63.0	67.2	50.5	21.0	4.2	0.0	0.0
82.5°	46.3	50.5	63.0	58.9	58.9	58.9	46.3	21.0	4.2	0.0	0.0
85°	8.4	12.6	21.0	21.0	29.4	37.8	29.4	8.4	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)