

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: P651096

Luminaire Tested: **GALN-SA8C-840-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651096
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-840-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37380.8 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

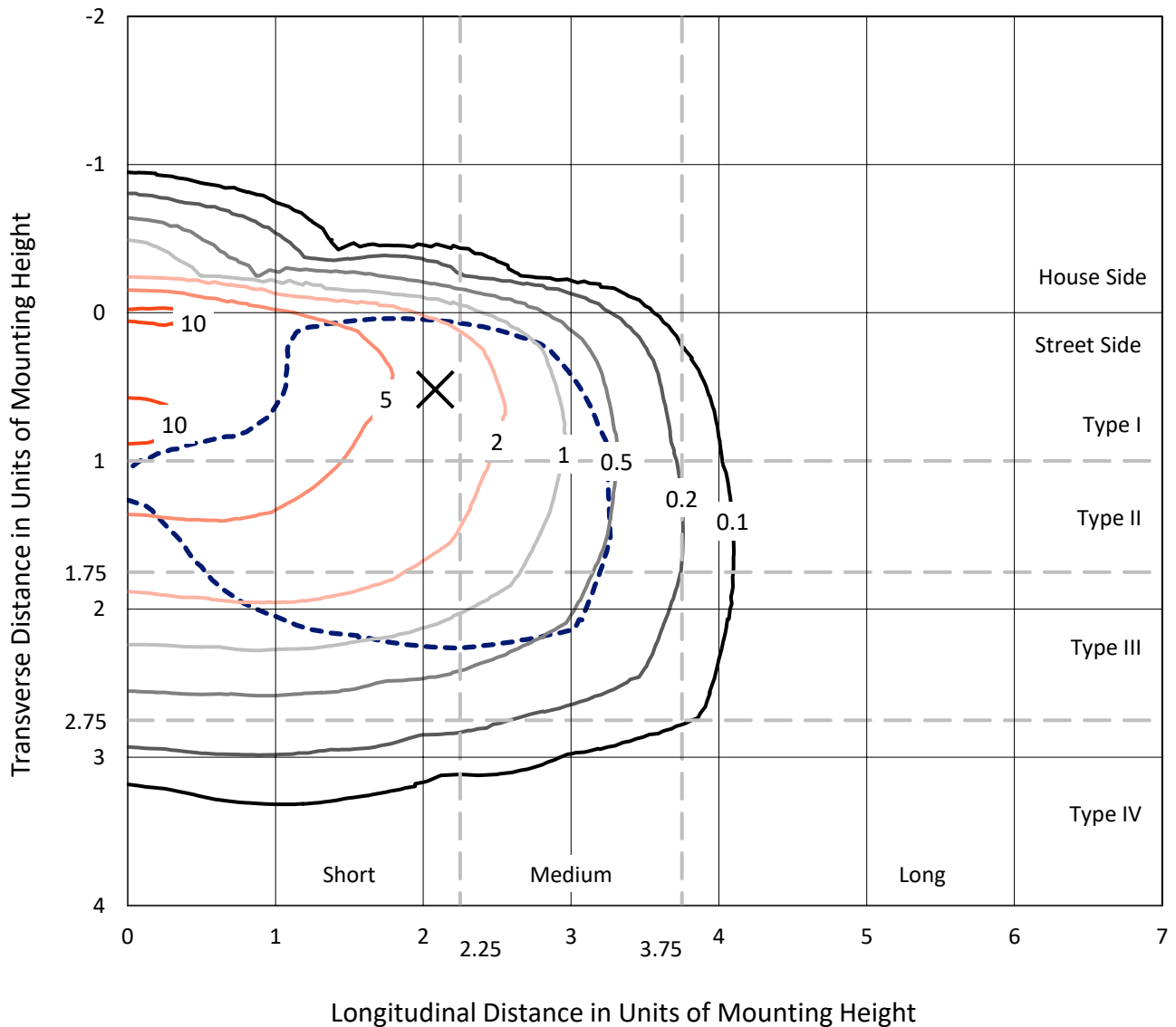
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

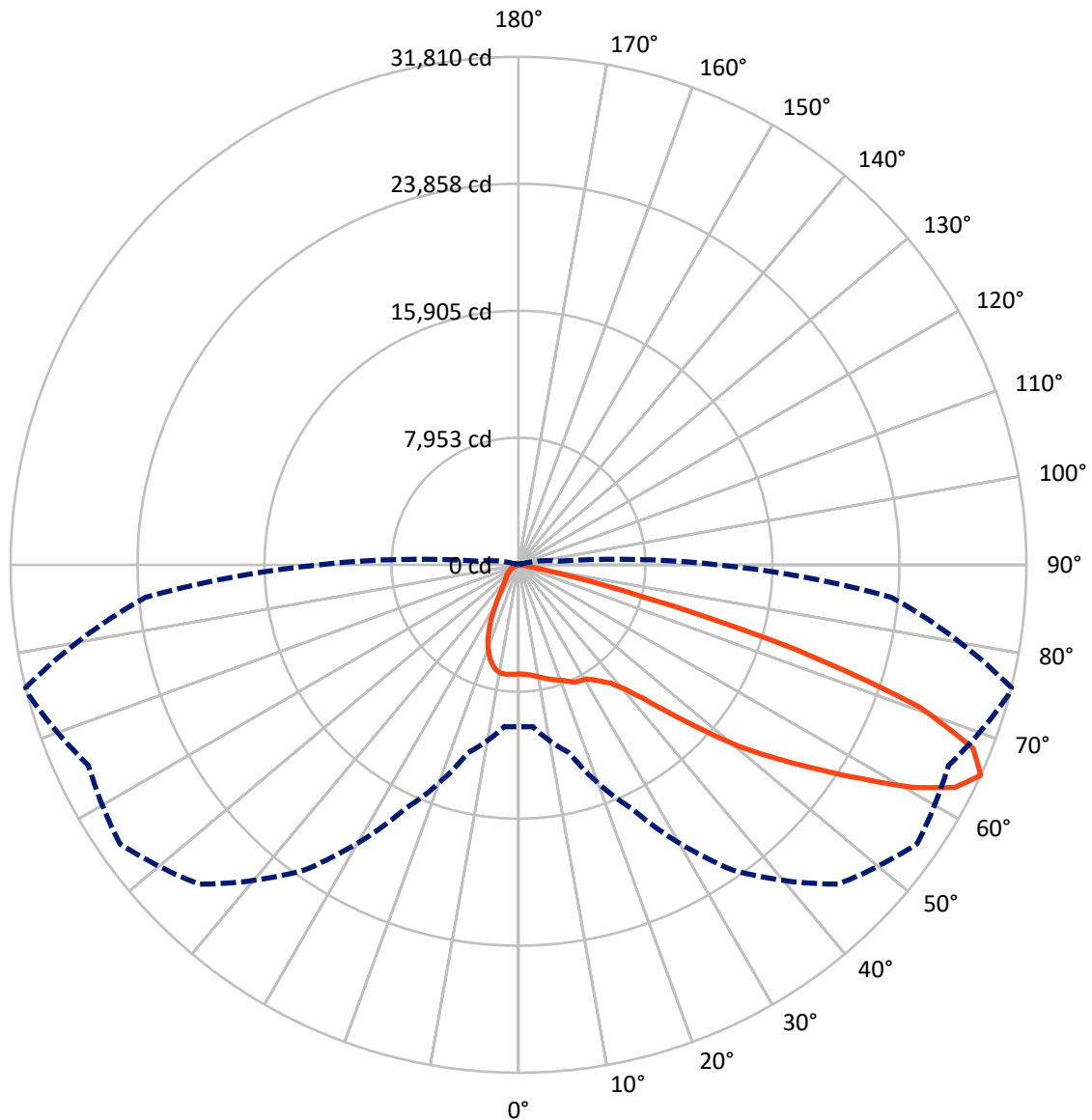
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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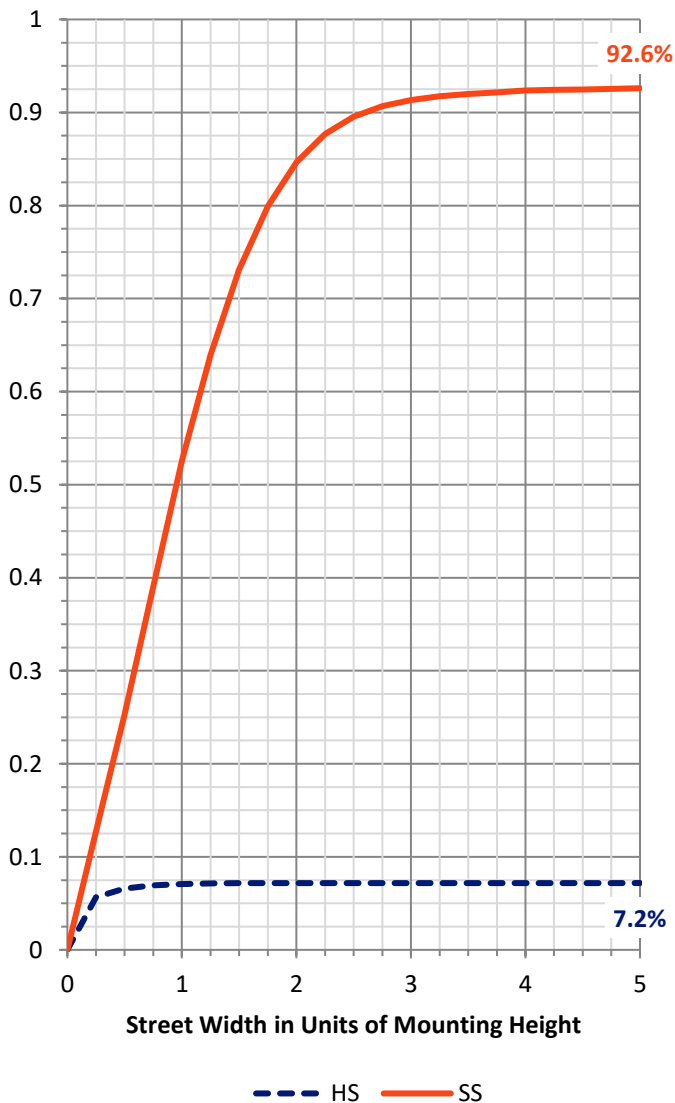
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2699.6	0.0	2699.6
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	34681.1	0.0	34681.1
	% Fixture	92.8	0.0	92.8
Total	Lumens	37380.8	0.0	37380.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	563.3	1.5
10°-20°	1254.2	3.4
20°-30°	2021.1	5.4
30°-40°	3514.2	9.4
40°-50°	5807.0	15.5
50°-60°	8970.5	24.0
60°-70°	10954.3	29.3
70°-80°	4157.4	11.1
80°-90°	138.7	0.4
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°	37380.8	100.0
0°-180°	37380.8	100.0

Coefficient of Utilization



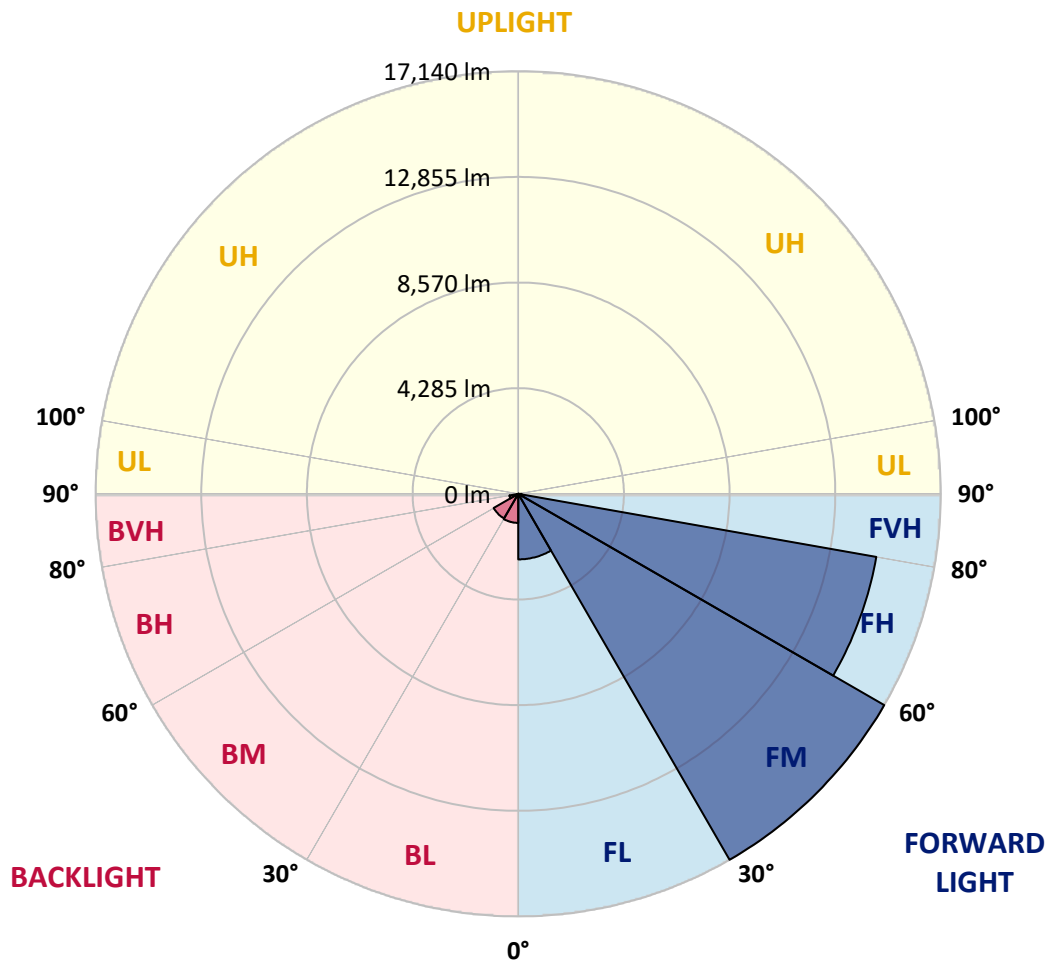
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2659.2	7.1			
FM (30°-60°)	17139.7	45.9			
FH (60°-80°)	14745.5	39.4			G5
FVH (80°-90°)	136.8	0.4			G2/225
BL (0°-30°)	1179.4	3.2	B3/2500		
BM (30°-60°)	1152.0	3.1	B2/2500		
BH (60°-80°)	366.3	1.0	B1/500		G1/500
BVH (80°-90°)	1.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	6838.2	6838.2	6838.2	6838.2	6838.2	6838.2	6838.2	6838.2	6838.2	6838.2	6838.2
2.5°	6534.7	6537.3	6553.1	6592.7	6653.4	6703.5	6745.7	6814.4	6861.9	6867.2	6883.0
5°	6083.3	6051.7	6083.3	6186.2	6278.7	6418.5	6590.1	6761.6	6914.7	6925.2	6999.1
7.5°	5576.6	5603.0	5653.1	5758.7	5932.9	6146.7	6394.7	6700.9	6991.2	7017.6	7162.8
10°	5062.0	5120.0	5201.8	5362.8	5605.6	5882.7	6220.5	6658.7	7112.6	7149.6	7400.3
12.5°	4586.9	4613.3	4713.6	4930.0	5230.9	5621.5	6088.6	6634.9	7247.2	7292.1	7653.6
15°	4222.7	4257.0	4344.1	4539.4	4874.6	5376.0	5980.4	6627.0	7379.2	7442.5	7907.0
17.5°	4154.1	4175.2	4212.1	4344.1	4637.0	5180.7	5882.7	6624.4	7505.8	7582.4	8141.9
20°	4436.4	4418.0	4381.0	4367.8	4528.9	5030.3	5811.5	6645.5	7627.3	7714.3	8390.0
22.5°	5143.8	5167.5	4951.1	4695.1	4642.3	5006.6	5801.0	6745.7	7820.0	7922.8	8667.1
25°	6645.5	6463.3	6125.6	5513.3	5051.4	5151.7	5919.7	6983.3	8044.2	8157.7	8917.8
27.5°	8305.5	8250.1	7724.9	6716.7	5856.4	5457.8	6130.8	7165.4	8118.2	8234.2	9060.3
30°	9936.6	10002.5	9400.8	8287.0	7025.5	6025.3	6328.8	7234.0	8184.1	8305.5	9242.4
32.5°	11448.8	11528.0	11000.1	9897.0	8403.2	7007.0	6669.2	7500.5	8461.2	8585.3	9545.9
35°	12639.1	12649.6	12251.1	11372.3	9907.5	8199.9	7405.6	7967.7	8836.0	8981.1	9868.0
37.5°	13731.7	13715.9	13248.7	12491.3	11161.2	9385.0	8332.0	8506.1	9263.5	9414.0	10332.4
40°	14541.9	14552.5	14402.0	13689.5	12330.3	10480.2	9065.6	9010.2	9981.4	10216.3	11008.0
42.5°	15083.0	15180.6	15254.5	14892.9	13800.3	11828.8	10192.6	10089.6	11227.1	11422.4	11963.5
45°	15521.1	15695.2	16064.7	16046.3	15212.3	13483.6	11739.1	11528.0	12992.7	13201.2	13180.1
47.5°	15840.4	16017.3	16629.5	16999.0	16539.8	15088.2	13684.2	13502.1	15101.4	15328.4	14523.5
50°	16004.1	16215.2	16996.4	17711.6	17577.0	16634.8	15901.1	15911.6	17648.2	17867.3	16080.6
52.5°	15621.3	15895.8	17191.6	18479.6	18740.8	18115.4	17978.1	18326.5	19915.3	20102.7	17487.2
55°	14399.4	14745.2	16925.1	19134.1	20089.5	19862.5	20337.6	20868.1	22393.5	22514.9	18930.9
57.5°	13626.1	13993.0	16138.6	19691.0	21710.0	22058.3	22810.5	23198.5	24950.9	25259.7	20588.3
60°	12974.3	13261.9	15492.1	19809.8	23356.8	24745.0	25476.1	25877.2	28107.3	28307.9	22412.0
62.5°	11889.6	12219.5	14399.4	18981.0	24185.5	26895.9	28410.8	28231.4	30548.6	30688.5	23531.0
65°	10145.1	10174.1	12182.5	16898.7	23330.4	28292.1	30472.0	29719.9	31715.1	31810.2	23443.9
67.5°	7571.9	7851.6	9371.8	13283.0	19706.8	27099.2	31139.8	29759.5	30978.8	30714.8	21583.3
70°	4877.2	5091.0	6352.5	9210.8	14209.4	22615.2	28925.5	27719.4	27188.9	26603.0	17666.7
72.5°	2251.2	2525.7	3774.1	5262.6	8426.9	16109.6	23480.9	22520.2	19569.6	18123.3	11229.7
75°	981.8	1050.4	1863.2	2776.4	3950.8	8519.3	15481.5	13979.8	8838.7	8073.3	4494.6
77.5°	599.1	644.0	976.5	1488.5	1551.8	3246.2	8339.9	6099.2	2731.6	2409.5	1219.3
80°	406.5	456.6	710.0	778.6	530.5	905.3	3130.1	1628.3	551.6	527.8	261.3
82.5°	198.0	250.7	525.2	435.5	229.6	290.3	910.6	348.3	161.0	150.5	92.3
85°	29.0	50.1	295.6	285.0	102.9	68.6	161.0	87.1	55.4	52.8	42.2
87.5°	0.0	0.0	100.2	44.8	10.6	10.6	18.5	18.5	21.1	18.5	21.1
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°	6838.2	6838.2	6838.2	6838.2	6838.2	6838.2	6838.2	6838.2	6838.2	6838.2	6838.2
2.5°	6890.9	6904.1	6854.0	6782.7	6706.2	6629.6	6521.5	6423.8	6365.7	6400.0	6315.6
5°	7014.9	7004.4	6872.5	6656.0	6368.4	6022.7	5679.5	5386.6	5291.6	5149.0	5133.2
7.5°	7186.5	7157.5	6877.7	6381.6	5732.3	5083.1	4449.6	4030.1	3789.9	3586.7	3591.9
10°	7426.7	7342.2	6817.1	5898.6	4829.7	3850.6	3043.0	2488.8	2248.6	2172.1	2111.3
12.5°	7674.8	7511.1	6648.1	5246.7	3760.9	2631.2	1850.0	1512.3	1364.4	1316.9	1311.7
15°	7896.5	7637.8	6352.5	4462.9	2734.2	1681.2	1261.5	1150.7	1132.2	1134.8	1132.2
17.5°	8115.5	7738.1	5943.4	3631.5	1858.0	1206.1	1084.7	1058.3	1066.2	1076.8	1074.1
20°	8297.6	7759.2	5420.9	2771.2	1314.3	1058.3	1018.7	1013.5	1021.4	1029.3	1029.3
22.5°	8495.5	7775.0	4800.7	1918.7	1074.1	984.4	963.3	963.3	973.9	984.4	987.1
25°	8643.4	7687.9	4059.1	1377.6	947.5	913.2	902.6	905.3	915.8	921.1	918.5
27.5°	8667.1	7442.5	3272.6	1055.7	860.3	826.0	815.5	826.0	812.9	820.8	815.5
30°	8688.2	7131.1	2475.6	889.4	781.2	728.4	712.6	696.8	686.2	673.0	670.4
32.5°	8754.2	6764.2	1807.8	799.7	707.3	649.3	612.3	567.4	533.1	522.6	519.9
35°	8783.2	6323.5	1327.5	728.4	641.3	578.0	512.0	448.7	398.5	380.0	393.3
37.5°	8894.1	5895.9	1029.3	675.7	583.2	504.1	419.7	340.4	292.9	282.4	287.7
40°	9121.1	5431.4	863.0	630.8	533.1	435.5	332.5	256.0	224.3	213.8	211.2
42.5°	9485.2	4969.6	768.0	588.5	483.0	366.8	261.3	200.6	174.2	166.3	166.3
45°	9928.6	4526.2	702.0	543.7	430.2	295.6	205.9	161.0	145.2	139.9	139.9
47.5°	10511.9	4138.2	646.6	498.8	372.1	234.9	166.3	139.9	129.3	132.0	134.6
50°	11103.1	3850.6	585.9	448.7	306.1	192.7	142.5	124.0	121.4	124.0	124.0
52.5°	11549.1	3681.6	504.1	380.0	240.2	161.0	126.7	116.1	113.5	108.2	108.2
55°	12150.9	3644.7	401.2	308.8	190.0	134.6	113.5	105.5	97.6	92.3	89.7
57.5°	12924.1	3686.9	308.8	240.2	147.8	110.8	100.2	87.1	76.5	66.0	66.0
60°	13404.4	3591.9	240.2	184.8	108.2	89.7	76.5	63.3	50.1	42.2	39.6
62.5°	13251.4	3190.8	190.0	137.3	76.5	66.0	50.1	42.2	29.0	21.1	18.5
65°	12462.3	2575.8	153.1	95.0	55.4	39.6	26.4	26.4	13.2	2.6	0.0
67.5°	10907.8	1908.1	121.4	63.3	31.7	18.5	13.2	7.9	0.0	0.0	0.0
70°	8878.3	1377.6	95.0	39.6	18.5	13.2	5.3	2.6	0.0	0.0	0.0
72.5°	5637.3	789.1	73.9	23.7	13.2	5.3	0.0	0.0	0.0	0.0	0.0
75°	2180.0	308.8	50.1	15.8	5.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	617.5	145.2	29.0	7.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	161.0	63.3	15.8	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	76.5	26.4	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	44.8	10.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	21.1	2.6	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)