

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: P650947

Luminaire Tested: **GALN-SA6C-840-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650947
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6C-840-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26155.1 lumens
Efficiency: N/A
Efficacy: 81.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

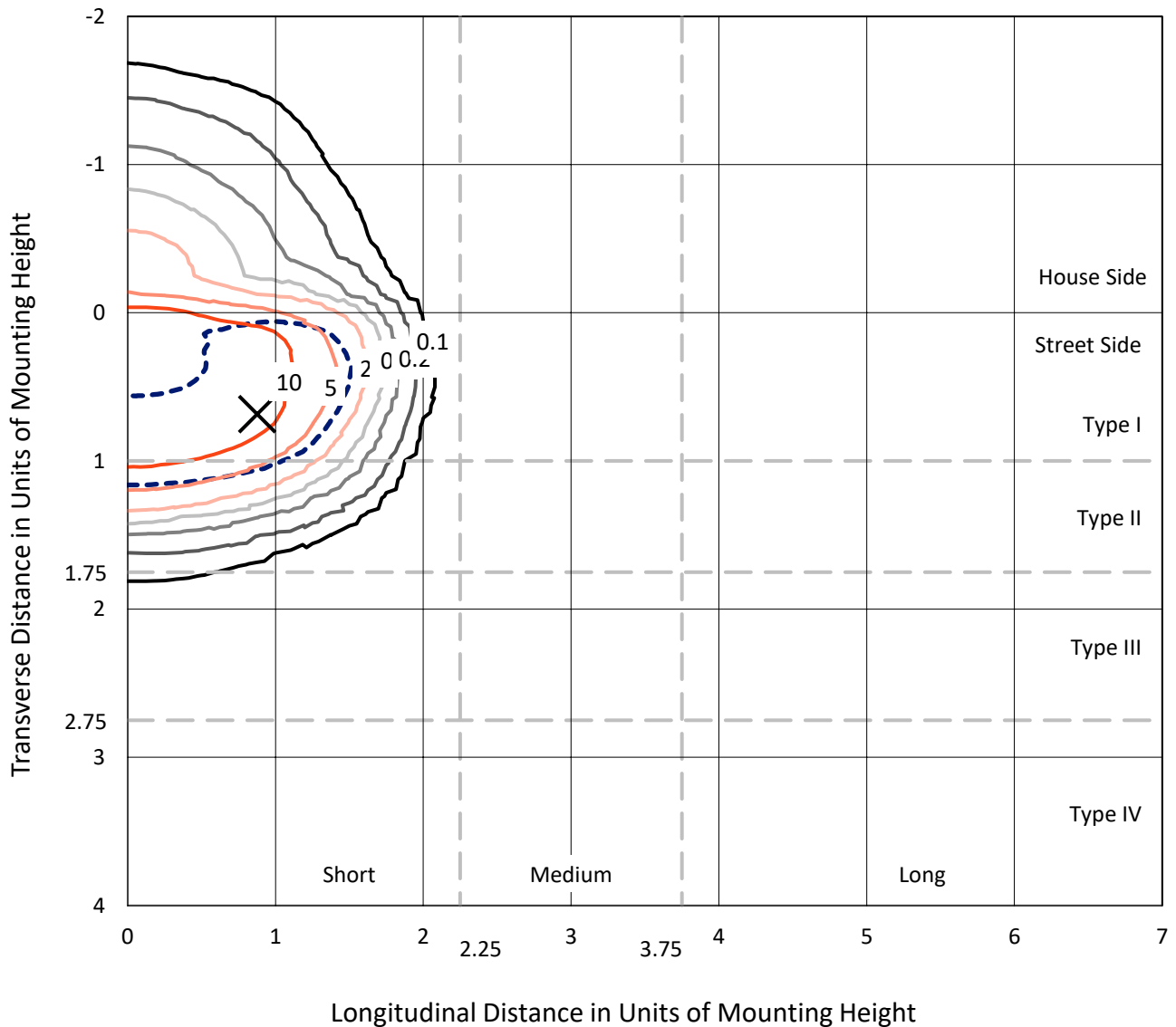
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

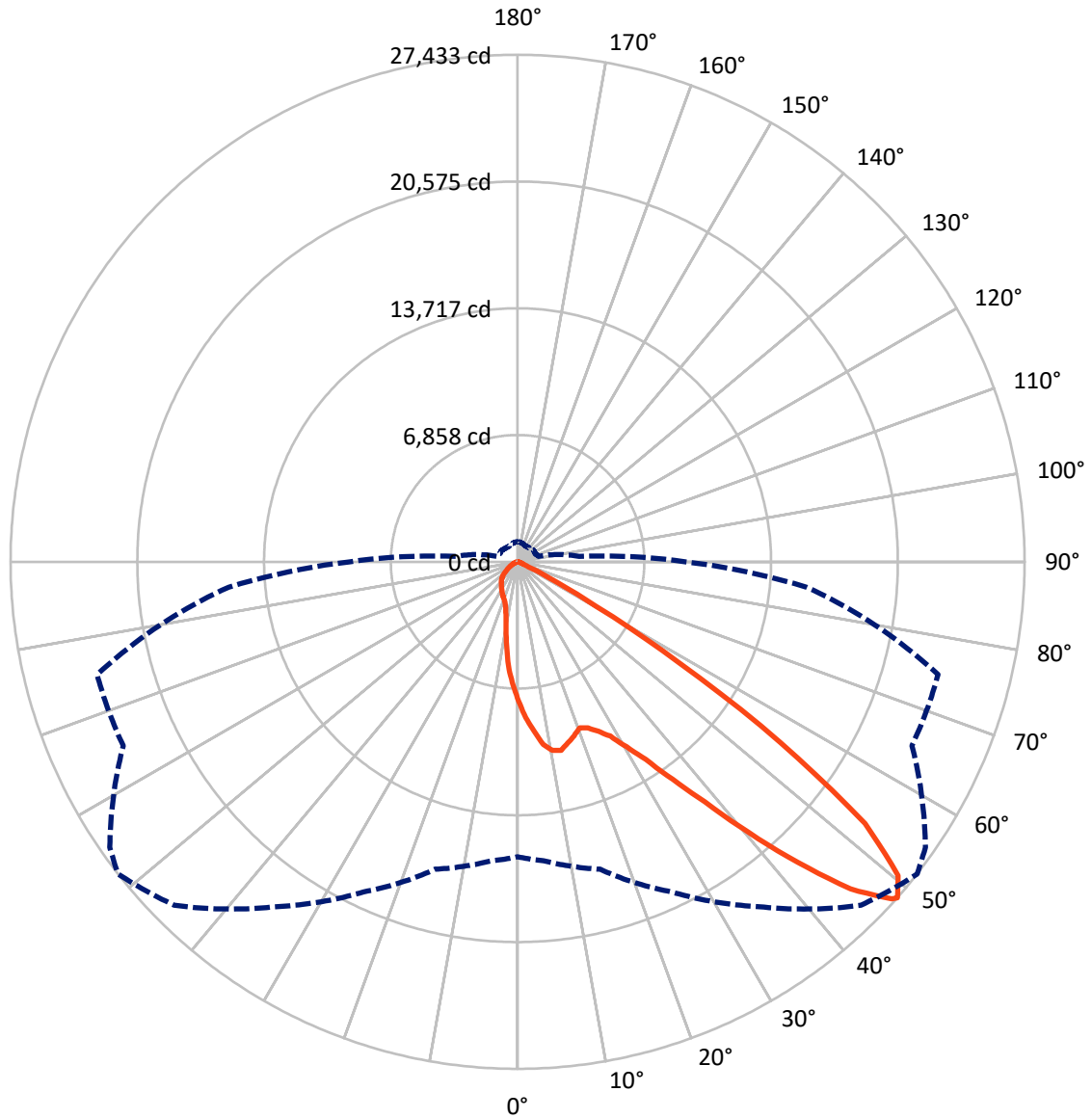
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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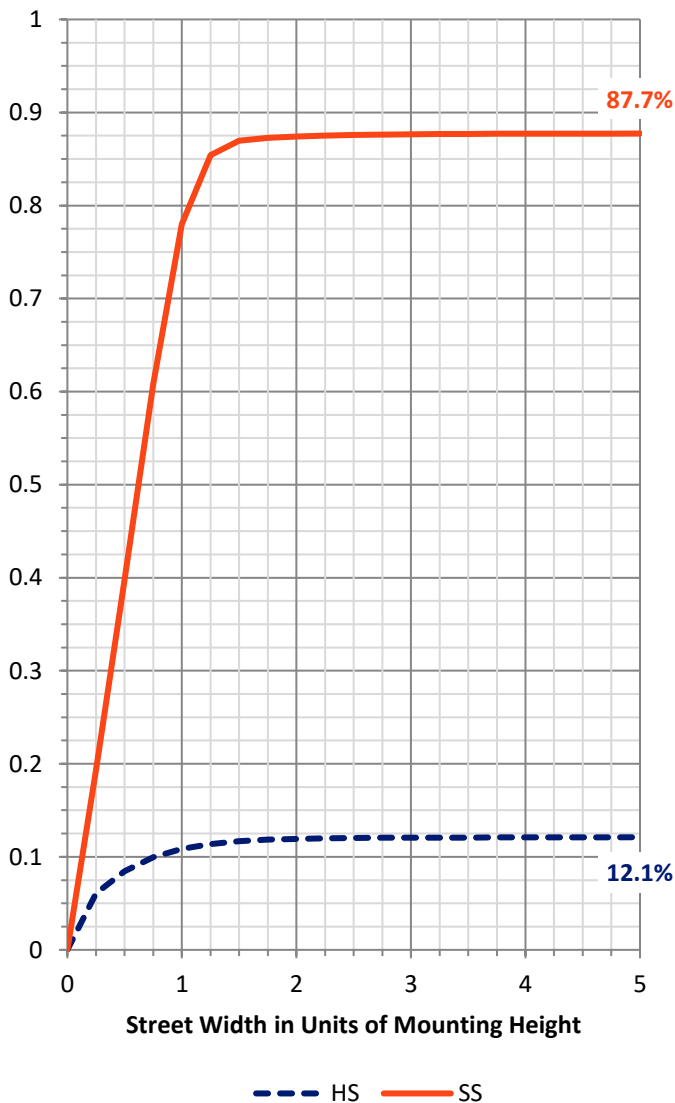
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3184.6	0.0	3184.6
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	22970.5	0.0	22970.5
	% Fixture	87.8	0.0	87.8
Total	Lumens	26155.1	0.0	26155.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	691.3	2.6
10°-20°	1806.7	6.9
20°-30°	3084.8	11.8
30°-40°	5680.6	21.7
40°-50°	8822.0	33.7
50°-60°	5309.3	20.3
60°-70°	614.1	2.3
70°-80°	118.9	0.5
80°-90°	27.5	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°	26155.1	100.0
0°-180°	26155.1	100.0

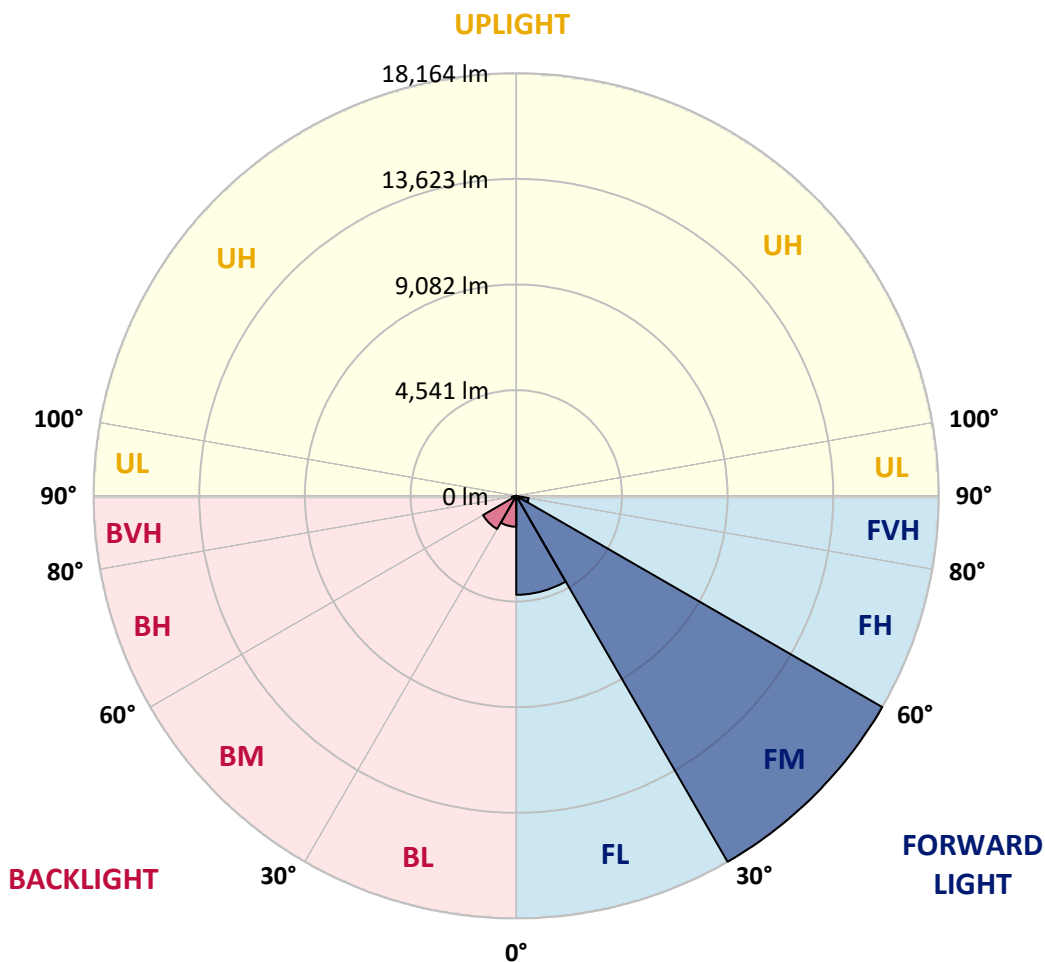


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4252.5	16.3			
FM (30°-60°)	18164.2	69.4			
FH (60°-80°)	540.7	2.1			G0/660
FVH (80°-90°)	13.1	0.1			G1/100
BL (0°-30°)	1330.3	5.1	B3/2500		
BM (30°-60°)	1647.7	6.3	B2/2500		
BH (60°-80°)	192.2	0.7	B1/500		G1/500
BVH (80°-90°)	14.4	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	7553.2	7553.2	7553.2	7553.2	7553.2	7553.2	7553.2	7553.2	7553.2	7553.2	7553.2
2.5°	9154.5	8944.8	8963.9	8826.6	8746.6	8617.0	8441.5	8407.2	8216.6	7957.3	7694.2
5°	9978.1	9928.5	9993.4	9795.1	9802.7	9589.2	9177.4	9185.1	8746.6	8323.4	7915.4
7.5°	10031.4	9917.1	9981.9	10157.3	10260.3	10222.1	9989.6	9787.5	9371.9	8750.4	8155.6
10°	8983.0	9200.3	9268.9	9558.7	9970.5	10405.1	10378.4	10389.9	10042.9	9230.8	8361.5
12.5°	8353.8	8209.0	8441.5	8617.0	9238.4	10081.1	10466.2	10550.0	10576.7	9696.0	8567.4
15°	8067.9	8067.9	8106.0	8155.6	8605.5	9383.3	10168.7	10412.8	10988.5	10306.0	8891.5
17.5°	8247.1	8239.4	8292.8	8189.9	8357.7	8956.2	9894.2	10172.6	11449.9	10904.6	9146.9
20°	8792.3	8819.0	8784.7	8487.3	8498.7	8948.7	9589.2	10027.7	11762.5	11423.1	9486.2
22.5°	9551.1	9566.3	9371.9	9047.8	8952.4	9173.6	9764.6	10100.1	12014.1	12044.6	9589.2
25°	10428.0	10367.0	10328.9	9871.3	9581.6	9772.2	10161.1	10355.6	12170.4	12578.4	9882.8
27.5°	11644.3	11522.3	11289.7	10881.7	10668.3	10397.5	10675.8	10996.2	12616.6	13325.7	10203.1
30°	13440.1	13333.4	12879.7	12353.4	11793.0	11526.1	11613.8	11789.2	13421.1	14191.3	10626.3
32.5°	16143.4	15918.4	15262.6	14259.9	13497.3	12761.4	12738.5	12925.4	14141.7	15388.4	11129.5
35°	19121.2	19052.6	18087.9	17054.6	15579.1	14442.9	14461.9	14561.1	15521.9	16959.4	11789.2
37.5°	21100.0	21477.5	20863.6	19754.1	18515.0	16890.7	16478.9	16513.2	17416.9	18820.0	12978.7
40°	22629.0	22308.7	22381.1	22121.8	21275.4	20169.7	19258.5	19079.3	19609.3	20878.9	14160.8
42.5°	21961.7	21977.0	22423.1	23036.9	23246.7	23166.6	22236.3	21896.9	21485.1	22564.1	15285.5
45°	20078.2	20470.9	21050.5	22674.7	24100.7	25439.0	25256.0	24691.7	22781.5	23898.6	15933.7
47.5°	17073.7	17058.5	18007.8	20120.2	23288.6	26422.7	27253.9	26857.3	23700.4	23749.9	15800.3
48°	15964.2	16238.7	17218.6	19704.5	22773.9	26277.8	27433.1	26933.6	23544.0	23551.7	15685.8
50°	11800.7	11751.0	12971.2	16021.4	20341.3	24691.7	26678.2	27067.1	23540.3	22548.9	14885.2
52.5°	6233.9	6447.4	7335.8	10073.4	14381.9	20207.9	23532.6	24138.8	22709.0	20909.4	13733.7
55°	2649.9	2394.4	3077.0	4548.6	8090.8	13501.2	17264.4	18614.1	19201.3	18503.5	12014.1
57.5°	945.5	1033.3	1189.6	1711.9	3401.0	7389.2	10294.6	11343.1	13302.9	13577.4	8186.0
60°	606.3	617.7	667.2	785.4	1277.3	2848.1	4884.2	5719.2	6607.6	6821.1	3820.4
62.5°	468.9	472.8	495.7	514.7	606.3	1105.7	1834.0	2173.3	2257.2	1940.7	1002.8
65°	392.7	396.5	404.2	404.2	430.8	518.6	640.6	705.3	686.3	678.7	568.1
67.5°	301.2	308.8	324.1	324.1	339.3	316.5	354.6	377.4	427.1	518.6	484.2
70°	236.4	240.2	251.6	259.3	259.3	228.8	255.5	278.4	312.7	385.1	381.3
72.5°	183.0	190.7	198.2	198.2	186.8	156.3	183.0	202.1	225.0	266.9	259.3
75°	141.0	141.0	144.9	118.2	91.5	80.1	110.6	133.5	167.8	175.3	144.9
77.5°	38.1	42.0	38.1	34.3	38.1	57.2	72.4	83.8	106.7	106.7	95.3
80°	0.0	3.8	11.4	22.9	38.1	53.4	64.8	72.4	83.8	91.5	87.7
82.5°	0.0	3.8	11.4	22.9	34.3	42.0	57.2	61.0	68.6	80.1	80.1
85°	0.0	3.8	7.7	15.2	22.9	26.7	26.7	22.9	22.9	19.1	15.2
87.5°	0.0	0.0	3.8	7.7	7.7	11.4	11.4	11.4	11.4	11.4	11.4
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°	7553.2	7553.2	7553.2	7553.2	7553.2	7553.2	7553.2	7553.2	7553.2	7553.2	7553.2
2.5°	7591.3	7473.1	7293.9	7011.8	6741.0	6565.6	6397.9	6211.0	6108.1	6100.4	6043.3
5°	7682.8	7415.9	6988.9	6504.6	5986.1	5540.0	5090.1	4796.5	4533.4	4388.5	4361.8
7.5°	7732.3	7385.4	6695.3	5883.1	4998.6	4270.3	3767.0	3397.2	3252.3	3145.6	3141.7
10°	7835.3	7332.0	6256.8	5059.6	3965.3	3229.4	2882.4	2714.7	2634.7	2604.2	2558.4
12.5°	7911.5	7232.9	5806.9	4213.2	3134.2	2676.6	2524.1	2485.9	2489.8	2505.0	2485.9
15°	8018.3	7145.2	5200.7	3458.2	2630.8	2409.7	2409.7	2417.3	2470.7	2478.3	2474.5
17.5°	8010.7	6973.6	4575.4	2848.1	2325.8	2295.3	2306.8	2379.2	2413.5	2424.9	2398.3
20°	8102.2	6813.4	3931.0	2432.6	2154.2	2200.0	2276.3	2295.3	2337.2	2344.9	2314.3
22.5°	8075.5	6413.1	3332.4	2104.7	2024.6	2112.3	2188.5	2211.4	2200.0	2177.1	2173.3
25°	8025.9	6070.0	2783.4	1887.4	1929.3	2024.6	2097.0	2055.1	2032.2	2036.1	2039.8
27.5°	7938.3	5635.3	2329.7	1734.8	1799.7	1940.7	1936.9	1921.7	1944.6	1925.5	1944.6
30°	7923.0	5200.7	1956.0	1597.6	1704.3	1807.3	1814.9	1841.6	1868.3	1834.0	1868.3
32.5°	7945.9	4724.1	1689.1	1513.7	1647.1	1651.0	1734.8	1761.5	1742.5	1666.2	1673.8
35°	8121.3	4358.1	1494.6	1468.0	1555.6	1559.5	1639.5	1605.2	1521.3	1475.5	1502.3
37.5°	8491.1	4053.0	1403.1	1426.0	1433.7	1483.2	1487.0	1418.3	1426.0	1422.2	1437.4
40°	8963.9	3820.4	1338.3	1387.8	1380.2	1414.6	1277.3	1315.4	1349.7	1361.2	1368.8
42.5°	9288.0	3652.6	1296.3	1326.8	1311.6	1250.6	1174.4	1212.5	1239.1	1281.1	1288.7
45°	9432.9	3519.2	1246.8	1220.1	1220.1	1109.5	1079.0	1086.7	1147.6	1193.4	1185.8
47.5°	9196.5	3389.6	1159.1	1079.0	1105.7	1014.2	979.8	979.8	1044.7	1101.9	1090.4
48°	9105.0	3336.2	1162.9	1048.6	1067.6	998.9	964.6	957.0	1029.5	1082.9	1082.9
50°	8651.3	3137.9	1063.8	964.6	926.5	918.9	896.0	903.7	949.4	998.9	998.9
52.5°	7766.6	2710.9	899.8	827.4	758.8	804.5	815.9	800.7	823.6	869.3	865.5
55°	6481.8	2081.8	720.7	686.3	632.9	682.5	705.3	686.3	663.5	697.8	697.8
57.5°	4152.1	1121.0	575.7	583.3	530.0	579.5	598.6	552.9	510.9	537.6	533.8
60°	1872.1	671.0	472.8	461.4	427.1	484.2	514.7	461.4	404.2	423.2	442.3
62.5°	701.6	476.6	358.4	350.8	343.1	396.5	411.8	369.9	312.7	324.1	327.9
65°	514.7	419.4	285.9	259.3	274.5	312.7	305.0	263.1	225.0	225.0	232.6
67.5°	438.5	366.0	232.6	202.1	202.1	205.9	190.7	167.8	156.3	163.9	171.6
70°	343.1	289.8	183.0	156.3	141.0	125.8	110.6	106.7	95.3	106.7	102.9
72.5°	221.2	194.4	141.0	118.2	106.7	87.7	72.4	68.6	57.2	53.4	53.4
75°	118.2	118.2	110.6	95.3	83.8	68.6	57.2	45.8	30.5	22.9	22.9
77.5°	83.8	91.5	99.2	91.5	76.3	57.2	45.8	30.5	15.2	7.7	7.7
80°	80.1	91.5	99.2	87.7	76.3	57.2	42.0	22.9	11.4	3.8	3.8
82.5°	72.4	83.8	91.5	80.1	68.6	49.5	38.1	22.9	11.4	3.8	3.8
85°	15.2	19.1	22.9	22.9	26.7	34.3	26.7	19.1	7.7	3.8	3.8
87.5°	11.4	11.4	11.4	11.4	11.4	11.4	7.7	7.7	3.8	3.8	3.8
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)