

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: P647189

Luminaire Tested: **GALN-SA9C-835-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647189
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-835-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30350.7 lumens
Efficiency: N/A
Efficacy: 63.1 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

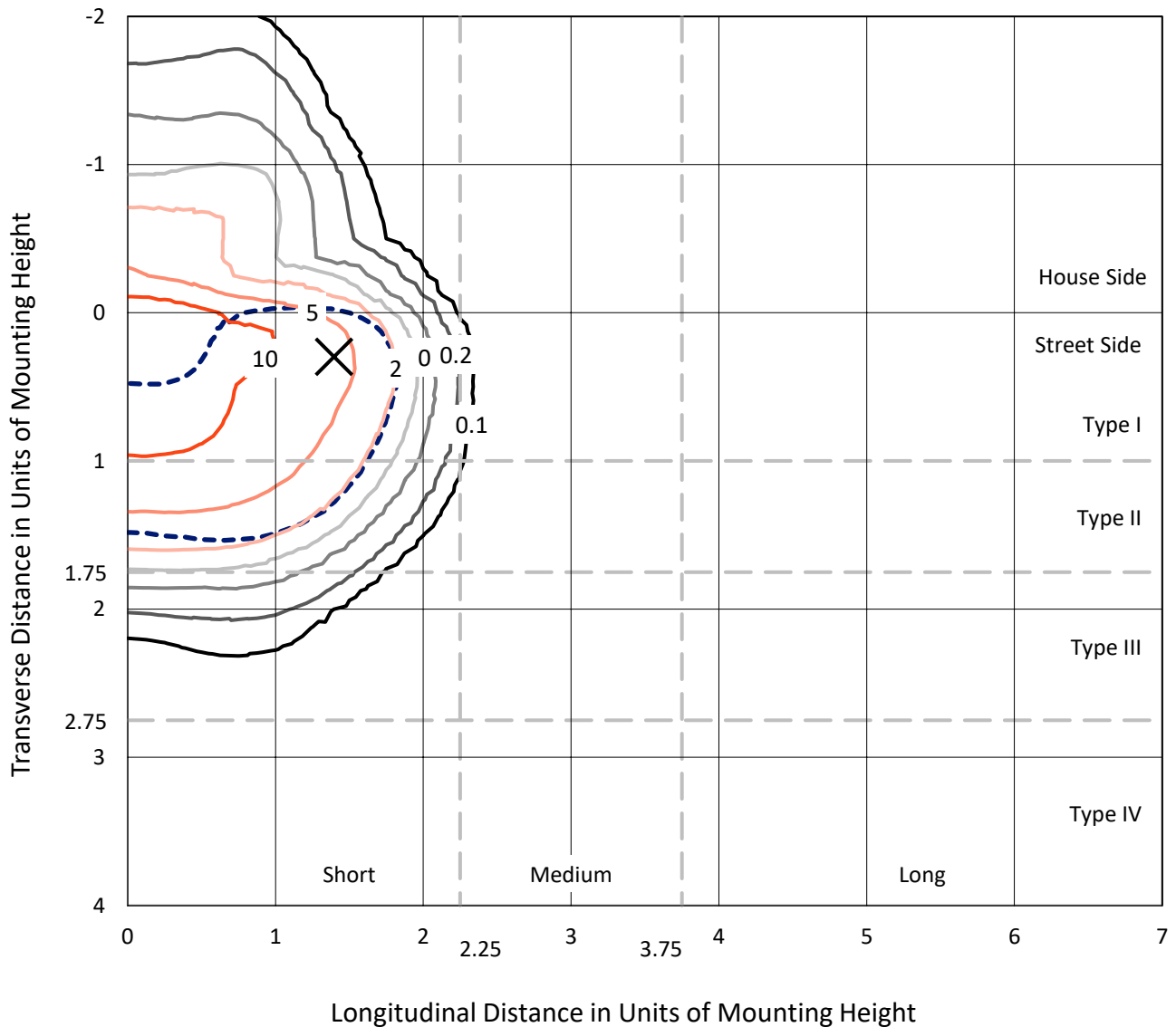
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

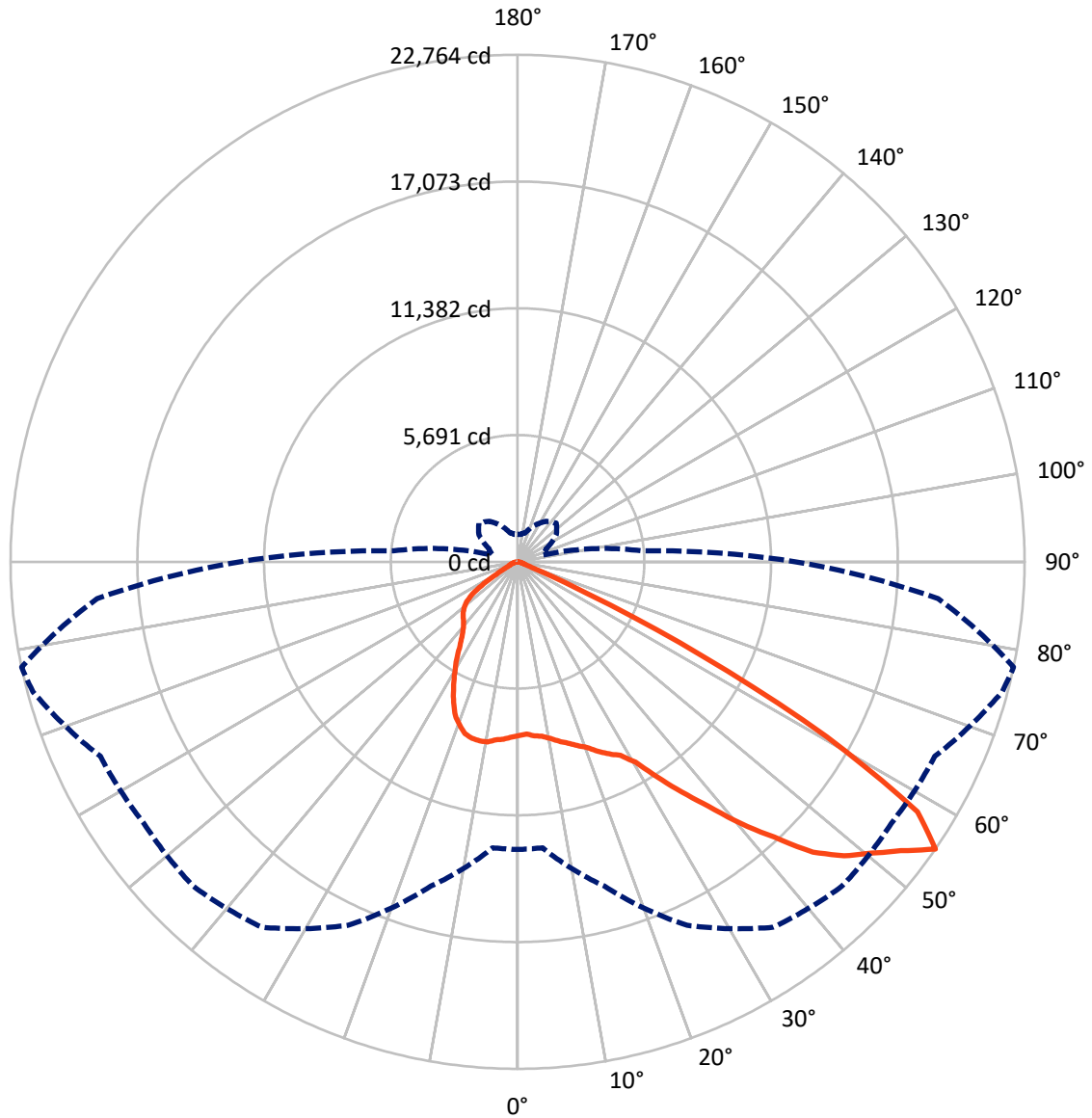
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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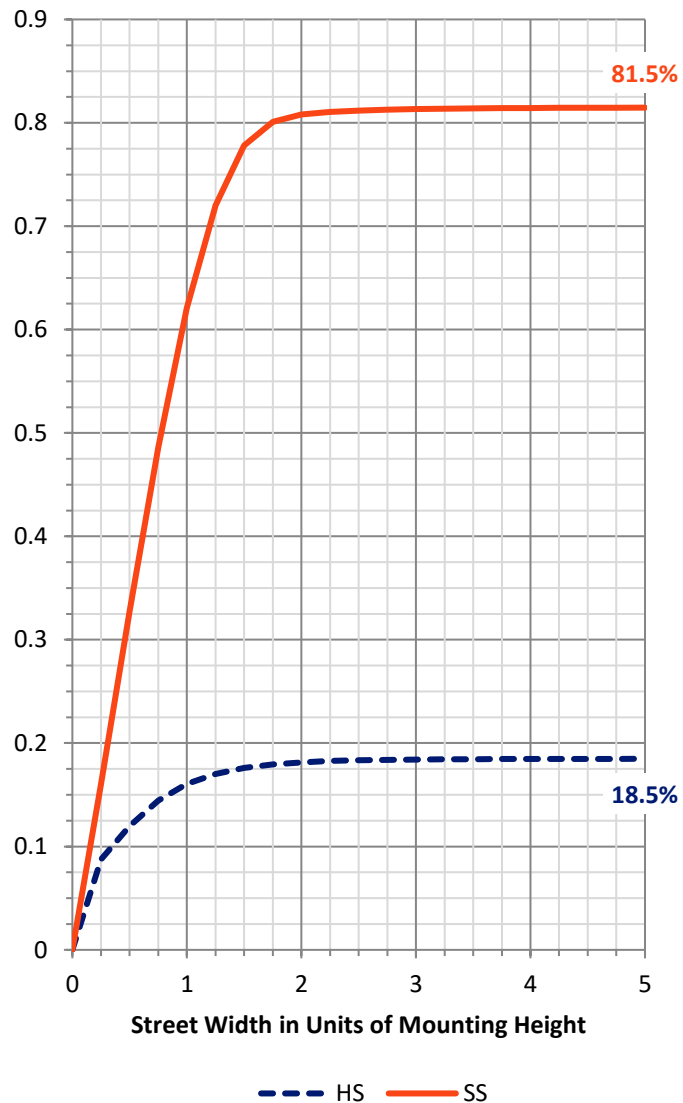
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5637.3	0.0	5637.3
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	24713.3	0.0	24713.3
	% Fixture	81.4	0.0	81.4
Total	Lumens	30350.7	0.0	30350.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	695.8	2.3
10°-20°	1841.4	6.1
20°-30°	3227.7	10.6
30°-40°	5322.1	17.5
40°-50°	7744.3	25.5
50°-60°	8775.1	28.9
60°-70°	2509.0	8.3
70°-80°	194.8	0.6
80°-90°	40.5	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°	30350.7	100.0
0°-180°	30350.7	100.0

Coefficient of Utilization



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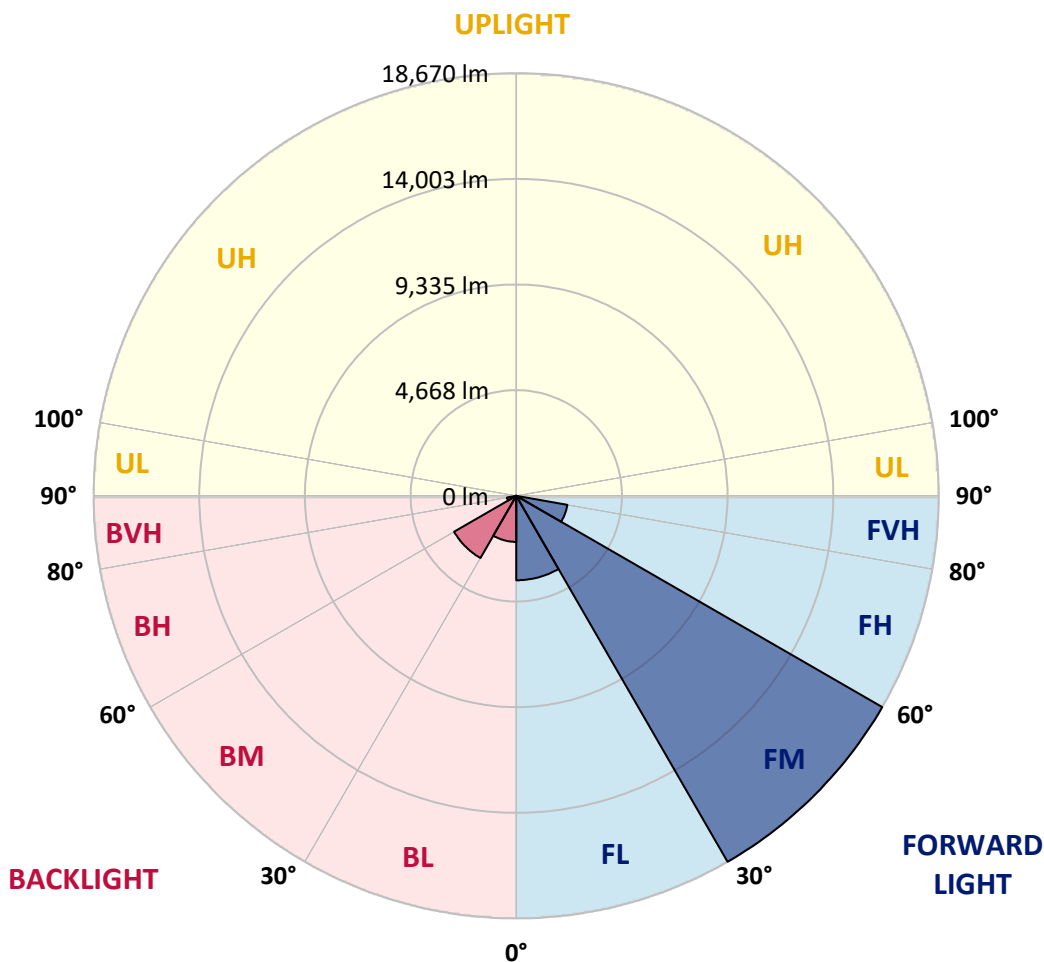
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3731.0	12.3			
FM (30°-60°)	18670.4	61.5			
FH (60°-80°)	2292.3	7.6			G2/5000
FVH (80°-90°)	19.7	0.1			G1/100
BL (0°-30°)	2034.0	6.7	B3/2500		
BM (30°-60°)	3171.1	10.4	B3/5000		
BH (60°-80°)	411.5	1.4	B1/500		G1/500
BVH (80°-90°)	20.8	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	7803.1	7803.1	7803.1	7803.1	7803.1	7803.1	7803.1	7803.1	7803.1	7803.1	7803.1
2.5°	7336.5	7407.0	7417.9	7504.7	7499.3	7645.8	7689.2	7694.6	7792.3	7743.5	7868.3
5°	7130.3	7092.3	7076.0	7228.0	7271.4	7401.6	7510.1	7575.3	7776.1	7846.6	7976.8
7.5°	6945.8	6945.8	6956.6	7092.3	7076.0	7244.2	7358.2	7559.0	7852.0	7911.7	8069.0
10°	6766.8	6701.6	6783.0	6924.1	7043.5	7119.4	7358.2	7548.1	7890.0	8063.6	8280.7
12.5°	6674.4	6707.0	6717.9	6821.0	6951.2	7179.2	7309.4	7624.1	8161.3	8264.4	8497.7
15°	7255.1	7190.0	7032.6	6940.4	7048.9	7157.4	7483.0	7803.1	8302.4	8448.9	8709.4
17.5°	7928.0	7873.7	7743.5	7493.9	7249.6	7450.5	7705.5	7998.5	8454.4	8671.4	9056.6
20°	8807.0	8720.2	8590.0	8101.6	7890.0	7672.9	7944.2	8291.6	8704.0	8899.3	9295.5
22.5°	9854.4	9854.4	9561.3	8969.8	8530.3	8324.1	8438.1	8638.8	8980.7	9246.6	9637.3
25°	10945.1	10912.5	10646.6	10033.4	9290.0	9045.8	9176.1	9317.2	9409.4	9555.9	9816.4
27.5°	12193.1	12003.2	11666.8	10988.5	10331.8	9859.8	10000.9	9876.1	9762.1	9838.1	10212.5
30°	13039.6	13159.0	12730.3	12079.2	11460.5	10934.2	10961.4	10852.8	10331.8	10440.4	10662.9
32.5°	13918.8	13994.7	13755.9	13397.8	12779.2	12166.0	11943.5	11851.3	11460.5	11509.4	11292.3
35°	14651.3	14797.8	14586.2	14428.8	14249.7	13755.9	13142.7	13441.2	12811.8	12692.4	12128.0
37.5°	15324.2	15280.7	15530.3	15367.5	15329.6	14982.3	14309.4	14369.1	13945.9	13918.8	13267.5
40°	15926.5	15937.3	16279.2	16355.1	16203.2	15584.6	14607.9	15080.0	15421.8	15454.4	14618.8
42.5°	16425.7	16572.3	16865.3	17478.4	17250.5	16219.5	14917.2	15432.7	16702.5	16903.2	15899.4
45°	16859.9	17158.3	17521.9	18069.9	17939.7	17120.3	15687.7	16159.9	18069.9	18596.2	17104.0
47.5°	16887.0	17277.7	17673.8	18487.7	18650.5	17603.2	16485.4	17310.3	19155.2	19724.9	17983.1
50°	16778.4	16984.7	17776.9	18661.4	19030.4	18390.1	17603.2	18276.2	20207.9	20566.0	18428.1
52.5°	15492.4	15649.7	17239.7	18824.2	19714.1	19280.0	19084.7	19621.9	21282.3	21548.2	18845.9
55°	12914.9	12887.7	15074.6	18004.8	20028.8	20598.6	20479.3	20669.2	22525.0	22763.8	18949.0
57.5°	8834.2	9328.0	11216.4	14993.1	18102.5	20289.3	20414.1	20099.4	21076.2	21168.4	16518.0
60°	4764.4	4970.6	6490.0	10006.3	13783.1	16534.2	16859.9	16290.1	16214.1	15953.6	11791.6
62.5°	1893.8	1996.9	2859.8	4954.3	7510.1	10049.7	10749.7	10516.4	10017.2	9333.4	6104.7
65°	900.8	965.9	1421.7	2317.1	3331.8	4189.2	4889.2	5106.3	3765.9	3391.5	2013.2
67.5°	613.2	662.0	1036.5	1324.1	1188.4	1242.6	1617.1	1503.1	884.5	754.3	558.9
70°	466.7	499.2	830.2	900.8	531.8	374.4	417.8	390.7	363.5	369.0	363.5
72.5°	331.0	358.1	607.8	531.8	233.3	173.7	222.5	265.9	265.9	265.9	260.5
75°	200.8	227.9	352.7	206.2	92.2	92.2	141.1	179.1	190.0	195.4	184.5
77.5°	103.1	130.2	119.4	59.7	59.7	70.5	103.1	124.8	135.7	135.7	130.2
80°	21.7	21.7	21.7	32.6	59.7	76.0	103.1	113.9	130.2	130.2	119.4
82.5°	0.0	5.4	16.3	32.6	54.3	70.5	97.6	113.9	130.2	135.7	124.8
85°	0.0	5.4	10.9	21.7	38.0	43.4	38.0	32.6	32.6	32.6	32.6
87.5°	0.0	0.0	5.4	5.4	5.4	10.9	10.9	10.9	10.9	10.9	10.9
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°	7803.1	7803.1	7803.1	7803.1	7803.1	7803.1	7803.1	7803.1	7803.1	7803.1	7803.1
2.5°	7879.2	7895.4	7868.3	7862.9	7841.1	7906.3	7748.9	7710.9	7808.6	7716.3	7738.1
5°	7982.2	8020.2	7971.4	7890.0	7770.6	7586.1	7428.7	7222.5	7124.8	7054.4	7043.5
7.5°	8058.2	8085.3	8036.5	7776.1	7417.9	6951.2	6603.9	6348.9	6148.1	6088.5	5990.7
10°	8367.5	8372.9	8128.7	7553.5	6853.5	6240.4	5708.5	5317.9	5117.1	4992.3	4938.0
12.5°	8573.7	8562.9	8069.0	7114.0	6180.7	5366.7	4758.9	4286.8	4102.4	4042.7	4004.7
15°	8834.2	8774.5	7928.0	6663.6	5312.4	4433.3	3885.3	3559.8	3543.5	3505.5	3543.5
17.5°	9040.4	8872.2	7721.8	5844.2	4482.2	3652.0	3293.8	3315.5	3358.9	3397.0	3402.4
20°	9376.8	9029.6	7249.6	5127.9	3711.7	3131.1	3125.6	3223.3	3331.8	3375.2	3418.7
22.5°	9631.8	9094.6	6745.0	4362.8	3082.2	2919.4	3011.7	3158.2	3239.6	3283.0	3348.1
25°	9724.1	8915.6	6072.2	3597.7	2778.3	2821.7	2962.8	3060.5	3163.6	3212.4	3185.3
27.5°	9816.4	8823.3	5269.0	2962.8	2615.5	2756.6	2876.0	2973.7	3006.3	3071.3	3114.8
30°	10038.8	8503.1	4547.4	2561.3	2534.1	2713.2	2800.0	2832.6	2919.4	2957.4	2957.4
32.5°	10217.9	8378.3	3782.2	2371.3	2523.3	2734.9	2745.7	2745.7	2756.6	2729.5	2718.7
35°	10586.9	7949.7	3098.5	2257.4	2517.8	2740.3	2767.4	2675.2	2425.6	2327.9	2300.8
37.5°	11042.7	7672.9	2593.8	2230.2	2555.9	2805.5	2848.9	2501.6	2176.0	2018.7	1991.5
40°	11596.2	7477.6	2262.8	2219.4	2642.6	2957.4	2827.2	2365.9	1942.6	1714.8	1703.9
42.5°	12242.0	7298.5	2040.3	2214.0	2751.1	3114.8	2805.5	2252.0	1703.9	1552.0	1573.7
45°	12757.5	7200.9	1888.4	2176.0	2789.2	3207.0	2821.7	2051.1	1606.2	1508.5	1519.4
47.5°	13159.0	6994.6	1763.6	2110.9	2783.7	3239.6	2675.2	1969.8	1557.4	1584.5	1611.6
50°	13169.9	6717.9	1606.2	1969.8	2702.4	3179.8	2507.0	1893.8	1546.5	1660.5	1714.8
52.5°	13023.4	6327.2	1438.0	1769.0	2512.4	2973.7	2355.0	1861.3	1497.7	1486.8	1552.0
55°	12502.4	5594.6	1155.8	1432.6	2121.7	2452.7	2219.4	1801.6	1351.1	1226.3	1237.2
57.5°	10104.0	4010.1	852.0	1025.6	1503.1	1796.1	2002.4	1774.4	1215.5	1041.9	1047.3
60°	6256.6	2273.7	624.1	700.0	927.9	1090.7	1622.5	1649.6	1085.3	879.1	868.2
62.5°	3212.4	1123.3	483.0	493.8	569.8	640.3	1112.4	1383.7	982.2	835.7	835.7
65°	1074.4	553.5	423.3	379.8	379.8	396.1	672.9	960.5	830.2	700.0	700.0
67.5°	461.3	412.4	369.0	331.0	303.9	287.6	379.8	558.9	618.6	531.8	510.0
70°	358.1	347.3	320.2	276.7	238.7	217.0	222.5	287.6	352.7	341.9	331.0
72.5°	265.9	265.9	255.0	217.0	184.5	157.4	146.5	151.9	168.2	173.7	179.1
75°	184.5	190.0	190.0	168.2	135.7	113.9	97.6	81.4	65.1	54.3	48.9
77.5°	124.8	130.2	141.1	124.8	103.1	76.0	59.7	43.4	27.2	10.9	10.9
80°	108.5	124.8	135.7	124.8	108.5	81.4	59.7	32.6	16.3	0.0	0.0
82.5°	113.9	124.8	141.1	119.4	103.1	76.0	59.7	38.0	16.3	5.4	0.0
85°	27.2	27.2	32.6	38.0	48.9	54.3	43.4	27.2	16.3	5.4	0.0
87.5°	10.9	10.9	10.9	10.9	10.9	5.4	5.4	5.4	5.4	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)