

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: P191257

Luminaire Tested: **GLEON-AF-09-LED-E1-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191257
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-09-LED-E1-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51726.5 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

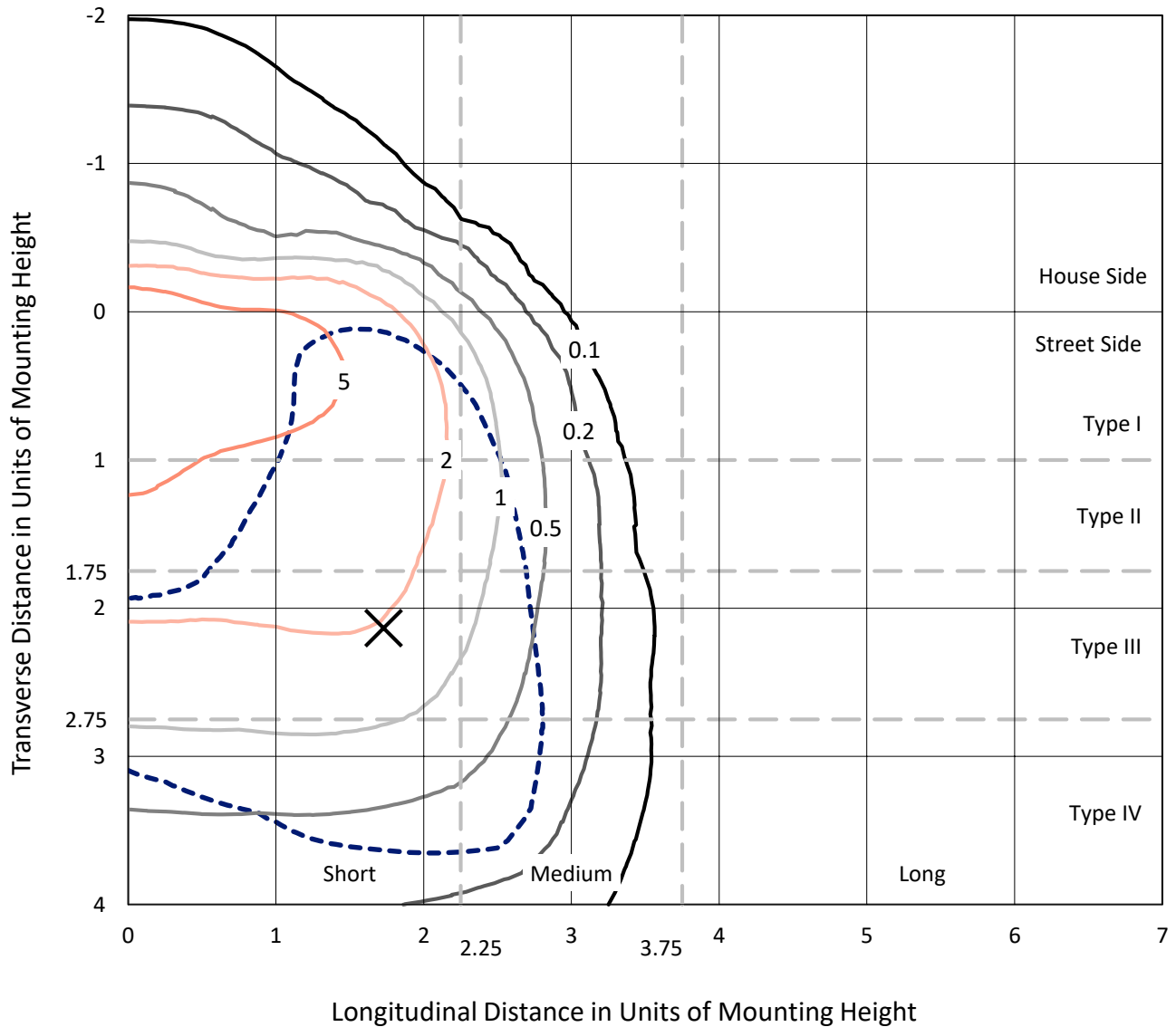
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

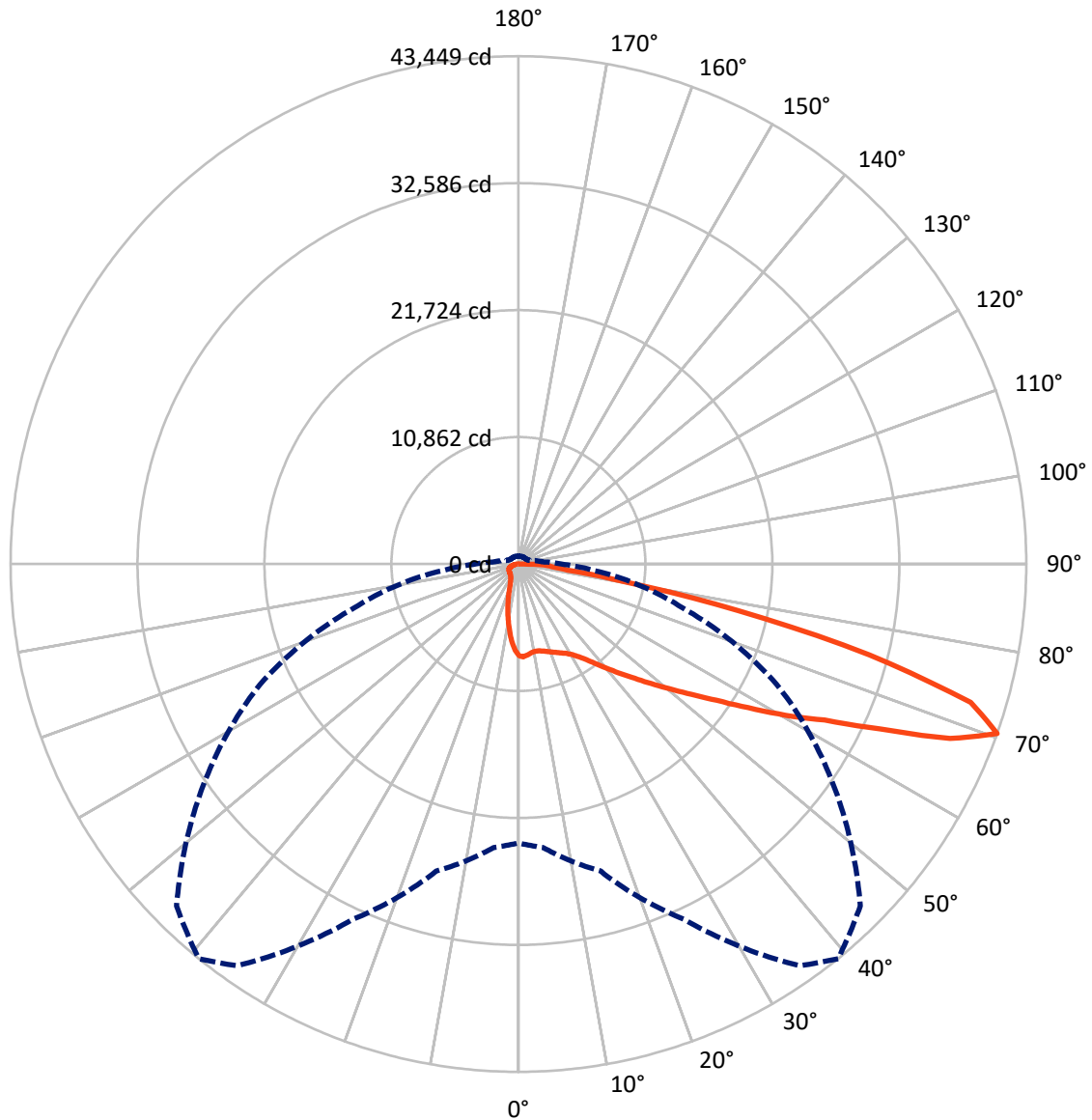
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.7 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5883.1	0.0	5883.1
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	45843.5	0.0	45843.5
	% Fixture	88.6	0.0	88.6
Total	Lumens	51726.5	0.0	51726.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	673.9	1.3
10°-20°	1684.6	3.3
20°-30°	2622.9	5.1
30°-40°	4086.0	7.9
40°-50°	6859.7	13.3
50°-60°	10897.2	21.1
60°-70°	14535.7	28.1
70°-80°	8777.8	17.0
80°-90°	1588.7	3.1
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°	51726.5	100.0
0°-180°	51726.5	100.0



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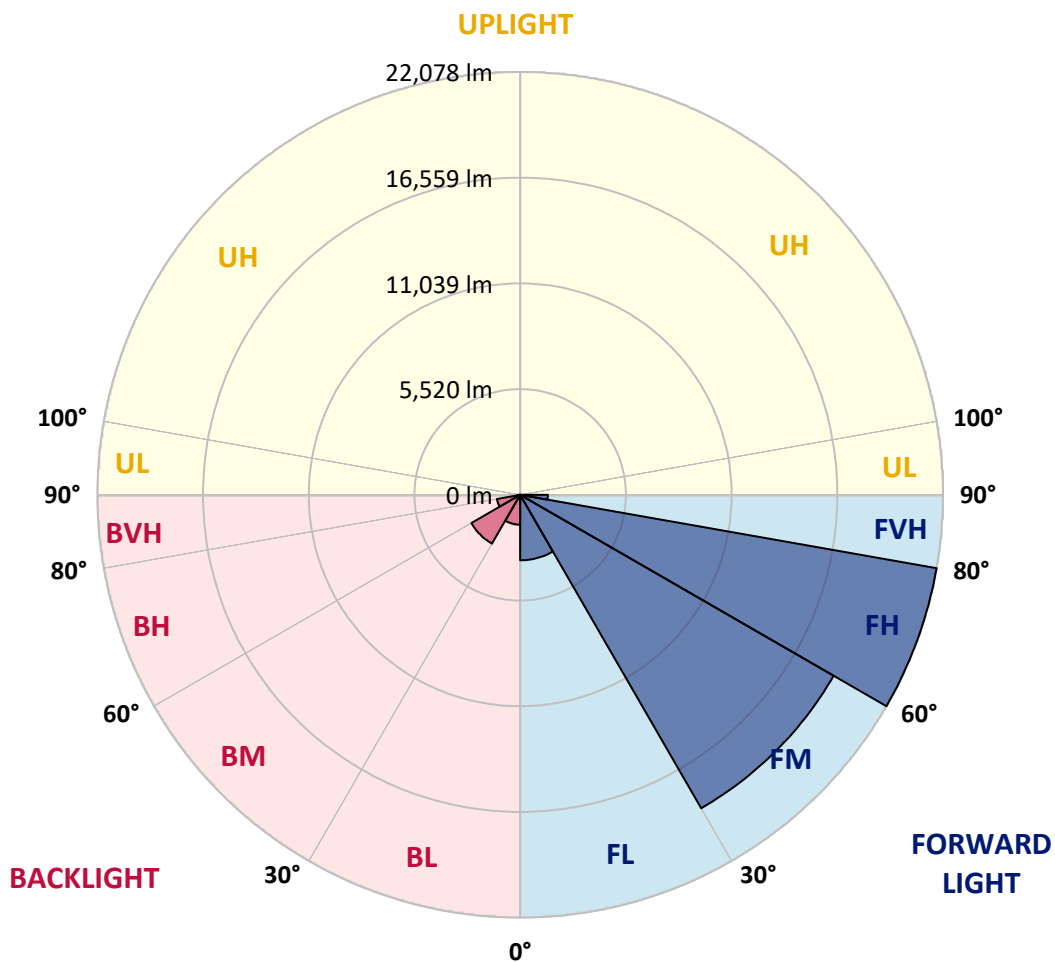
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3420.7	6.6			
FM	(30°-60°)	18898.9	36.5			
FH	(60°-80°)	22078.4	42.7			G5
FVH	(80°-90°)	1445.5	2.8			G5
BL	(0°-30°)	1560.7	3.0	B3/2500		
BM	(30°-60°)	2944.1	5.7	B3/5000		
BH	(60°-80°)	1235.1	2.4	B3/2500		G3/2500
BVH	(80°-90°)	143.2	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	7852.9	7852.9	7852.9	7852.9	7852.9	7852.9	7852.9	7852.9	7852.9	7852.9	7852.9
2.5°	8005.4	8002.7	7981.8	7966.0	7952.8	7947.6	7958.0	7918.7	7884.5	7842.4	7797.6
5°	7945.0	7942.3	7908.1	7876.5	7845.0	7834.5	7831.8	7760.8	7718.8	7655.7	7571.5
7.5°	7879.2	7866.1	7821.4	7768.7	7713.5	7687.2	7660.9	7568.8	7521.6	7458.4	7361.1
10°	7810.8	7795.0	7752.9	7700.4	7647.8	7608.3	7563.6	7474.2	7424.2	7376.9	7263.8
12.5°	7739.9	7726.7	7716.1	7692.5	7655.7	7621.5	7587.2	7511.0	7458.4	7403.2	7271.6
15°	7729.3	7724.0	7747.7	7763.5	7742.4	7721.4	7684.6	7618.8	7563.6	7508.4	7337.4
17.5°	7813.4	7810.8	7871.3	7913.3	7902.8	7866.1	7816.1	7742.4	7697.7	7650.3	7437.4
20°	7997.5	8010.7	8084.3	8139.5	8086.9	8034.4	7952.8	7850.2	7826.6	7805.5	7540.0
22.5°	8344.7	8357.8	8410.4	8431.5	8294.7	8218.5	8105.4	7973.9	7958.0	7973.9	7663.5
25°	8886.5	8873.3	8865.4	8786.5	8536.6	8418.3	8273.6	8137.0	8144.8	8215.8	7837.1
27.5°	9604.4	9533.4	9422.9	9186.2	8789.1	8657.6	8481.4	8355.2	8405.2	8541.9	8097.5
30°	10348.7	10269.8	10014.7	9628.1	9120.5	8975.9	8778.7	8636.6	8768.1	8983.8	8444.7
32.5°	11037.7	11027.2	10653.7	10156.7	9578.1	9451.9	9254.6	9094.2	9307.2	9636.0	8965.3
35°	11789.8	11813.5	11366.4	10769.4	10196.2	10064.6	9922.6	9801.6	10085.7	10538.0	9720.1
37.5°	12594.6	12641.9	12113.4	11440.1	10901.0	10845.7	10761.5	10709.0	11148.1	11774.1	10774.7
40°	13670.2	13622.9	12889.2	12197.5	11766.2	11763.5	11737.2	11800.4	12531.5	13388.8	12129.1
42.5°	14822.1	14682.7	13712.3	13010.1	12715.6	12805.0	12857.6	13115.4	14196.2	15350.7	13780.7
45°	16063.4	15750.5	14567.0	13870.1	13770.1	13959.5	14138.3	14698.6	16155.5	17583.5	15590.1
47.5°	17054.9	16752.5	15450.6	14772.1	14990.4	15277.1	15621.6	16507.9	18348.9	19889.9	17375.7
50°	17836.0	17638.7	16342.3	15824.1	16334.3	16776.2	17338.9	18556.6	20631.6	22135.9	19030.0
52.5°	18593.5	18446.2	17241.6	16902.4	17912.3	18522.4	19287.7	20755.2	22972.2	24345.0	20421.2
55°	19277.2	19171.9	18209.4	18246.3	19768.9	20563.3	21525.7	23258.8	25523.2	26314.8	21599.4
57.5°	20047.8	19913.6	19314.0	19932.0	22154.3	23185.2	24437.1	26072.9	27916.4	28066.3	22496.2
60°	20823.6	20707.9	20539.5	21878.2	25183.9	26267.4	27453.5	28800.1	30343.8	29426.0	22443.5
62.5°	21496.8	21510.0	21807.2	23921.6	28150.5	29404.9	30851.4	32182.1	32539.8	29662.7	20784.1
65°	22638.2	22846.0	23732.3	26814.5	32326.8	34004.6	35779.9	35566.8	33147.3	27450.9	17225.9
67.5°	23995.3	24360.8	26157.1	30669.9	37605.0	39832.5	40518.9	36332.1	30714.6	22314.8	12279.0
70°	23858.5	24360.8	27203.7	33544.4	41954.8	43448.6	41365.8	32881.6	24389.7	14577.6	6522.1
72.5°	21186.5	21904.4	25070.9	32226.8	40584.7	40453.2	35911.3	24513.3	14490.8	5854.1	2548.4
75°	16147.6	16873.5	19598.0	25460.1	32076.9	30972.4	25481.1	13541.4	5499.1	2324.9	1606.9
77.5°	9288.8	9851.6	11955.5	15613.7	20350.2	19216.7	14183.1	6022.5	2677.3	1620.0	1254.4
80°	5186.2	5499.1	6777.3	7921.2	9972.5	9141.5	6346.0	3742.4	1998.7	1175.6	967.8
82.5°	4100.0	4378.7	5480.8	4996.8	4555.0	4202.6	3645.1	3332.1	1596.3	741.6	578.6
85°	3582.0	3847.5	4639.2	3934.4	3111.2	2853.4	2961.2	3279.5	1241.4	447.1	494.4
87.5°	3319.0	3673.9	4134.3	3032.2	2422.1	2146.0	2732.5	3595.1	399.8	278.8	199.9
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°	7852.9	7852.9	7852.9	7852.9	7852.9	7852.9	7852.9	7852.9	7852.9	7852.9	7852.9
2.5°	7758.3	7716.1	7647.8	7587.2	7492.6	7442.6	7387.4	7348.0	7316.3	7290.1	7332.2
5°	7518.9	7440.0	7295.4	7140.2	6956.1	6811.4	6690.5	6577.4	6498.5	6445.9	6482.7
7.5°	7292.7	7163.8	6937.7	6656.2	6340.7	6072.4	5851.5	5656.9	5522.8	5436.0	5470.2
10°	7163.8	7003.4	6653.7	6211.9	5746.3	5328.1	4981.1	4681.2	4473.5	4355.1	4373.5
12.5°	7132.3	6924.6	6440.6	5833.2	5196.7	4615.5	4126.3	3710.8	3418.9	3266.4	3271.6
15°	7156.0	6890.4	6240.7	5470.2	4665.5	3931.7	3321.5	2816.6	2477.4	2303.8	2301.1
17.5°	7195.4	6864.0	6030.4	5078.3	4126.3	3274.3	2593.1	2098.7	1798.9	1659.4	1649.0
20°	7237.5	6822.0	5793.7	4654.9	3566.1	2664.1	2030.3	1643.7	1454.3	1378.1	1372.8
22.5°	7297.9	6785.1	5549.1	4207.8	3016.5	2169.7	1670.0	1409.6	1309.7	1270.2	1265.0
25°	7395.3	6766.7	5288.8	3742.4	2522.1	1814.6	1454.3	1293.9	1236.0	1209.7	1207.1
27.5°	7558.4	6793.0	5044.2	3290.0	2119.7	1575.3	1333.3	1236.0	1194.0	1170.3	1167.7
30°	7768.7	6874.5	4786.4	2861.3	1806.7	1412.3	1259.8	1196.6	1162.4	1138.7	1138.7
32.5°	8118.5	7011.3	4515.5	2490.5	1583.2	1299.1	1204.5	1162.4	1133.5	1115.1	1112.5
35°	8634.0	7269.1	4263.0	2182.8	1422.8	1217.6	1157.2	1125.6	1104.6	1094.0	1094.0
37.5°	9383.5	7676.7	4039.5	1961.9	1325.4	1162.4	1112.5	1088.8	1075.6	1075.6	1075.6
40°	10390.7	8239.5	3858.1	1814.6	1270.2	1123.0	1078.3	1059.9	1052.0	1054.6	1054.6
42.5°	11634.7	8970.6	3737.0	1712.1	1243.9	1099.3	1054.6	1038.8	1030.9	1028.3	1030.9
45°	13052.2	9801.6	3724.0	1635.8	1217.6	1083.5	1038.8	1023.1	1007.3	996.8	996.8
47.5°	14430.3	10645.8	3831.8	1609.5	1188.7	1065.1	1025.7	1009.9	986.2	962.5	962.5
50°	15647.9	11363.9	3976.4	1620.0	1178.2	1038.8	1004.6	996.8	959.9	933.6	931.0
52.5°	16615.7	11916.0	4094.8	1651.6	1188.7	1020.4	978.4	980.9	941.5	912.6	909.9
55°	17391.6	12279.0	4063.2	1683.2	1212.4	1009.9	954.6	959.9	928.3	899.4	899.4
57.5°	17730.8	12144.9	3713.4	1656.9	1230.8	1012.5	936.2	957.3	931.0	904.7	904.7
60°	17002.4	10953.6	3058.6	1541.1	1207.1	1004.6	928.3	967.8	965.2	938.9	936.2
62.5°	14798.4	8820.7	2372.2	1370.1	1125.6	965.2	907.4	965.2	994.1	986.2	983.6
65°	11405.9	6282.9	1812.0	1186.1	1015.2	899.4	852.1	904.7	944.2	954.6	952.1
67.5°	7403.2	3850.2	1396.4	1012.5	891.5	823.2	781.1	804.8	812.6	812.6	807.4
70°	3639.8	2072.4	1112.5	852.1	765.3	741.6	718.0	704.8	691.6	681.2	681.2
72.5°	1796.2	1354.4	915.2	720.6	660.1	649.6	644.4	628.5	618.1	604.9	599.7
75°	1328.1	1101.9	778.5	607.5	568.0	557.5	568.0	555.0	552.3	541.8	536.5
77.5°	1091.4	938.9	670.6	520.7	486.5	468.1	483.9	486.5	489.2	473.4	468.1
80°	886.3	794.2	560.2	431.3	399.8	386.6	397.1	418.2	423.4	399.8	389.2
82.5°	639.0	649.6	452.3	336.7	310.4	299.8	320.8	347.2	352.4	318.2	310.4
85°	536.5	541.8	347.2	239.4	213.0	197.2	231.4	257.7	276.1	241.9	234.1
87.5°	223.5	318.2	199.9	134.1	118.4	102.6	123.6	136.8	165.7	152.5	149.9
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)