

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: P382706

Luminaire Tested: **GLEON-SA0D-735-U-T4FT-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382706  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA0D-735-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 50805.7 lumens  
Efficiency: N/A  
Efficacy: 79.4 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

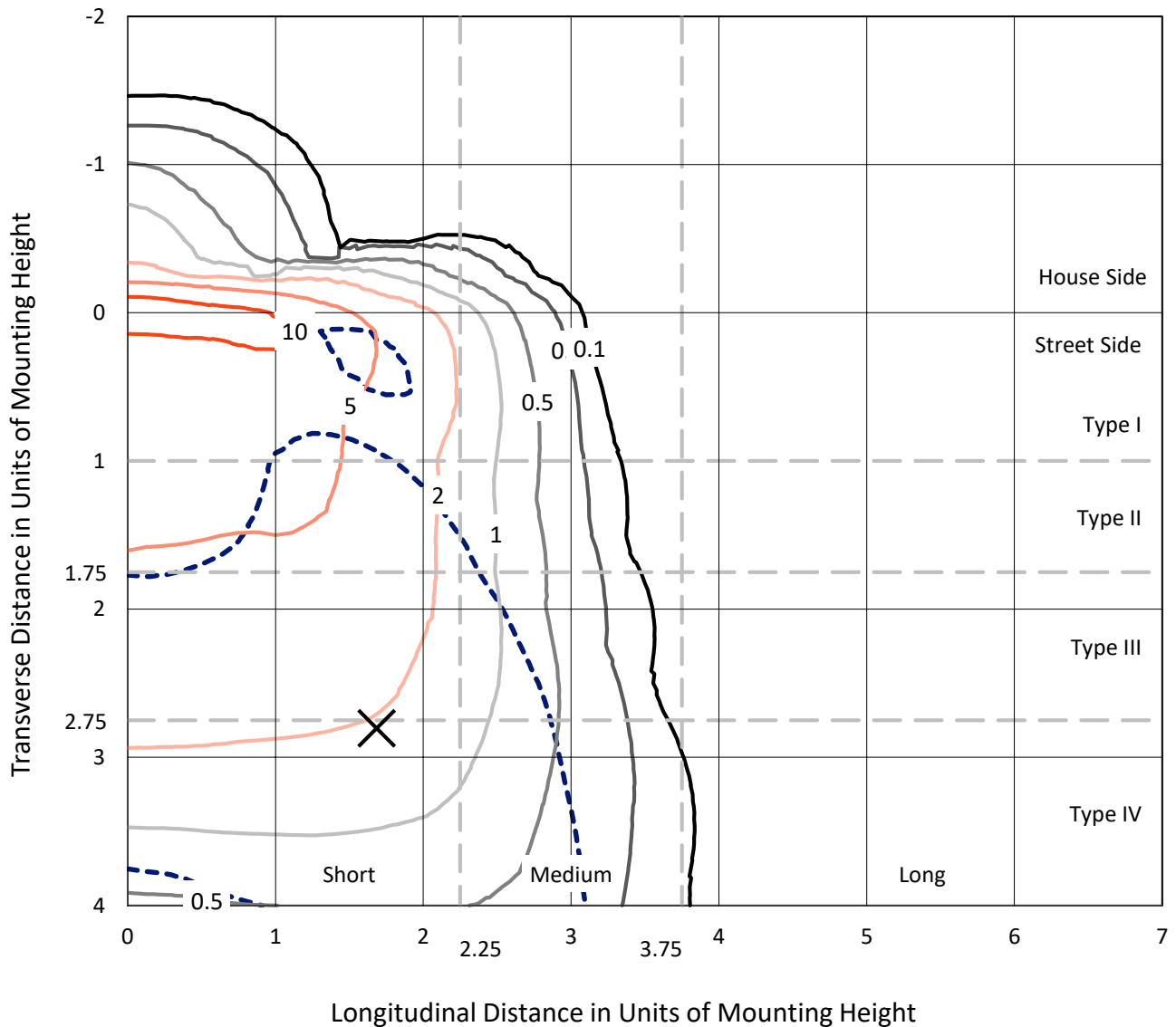
Input Watts (W): 640  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

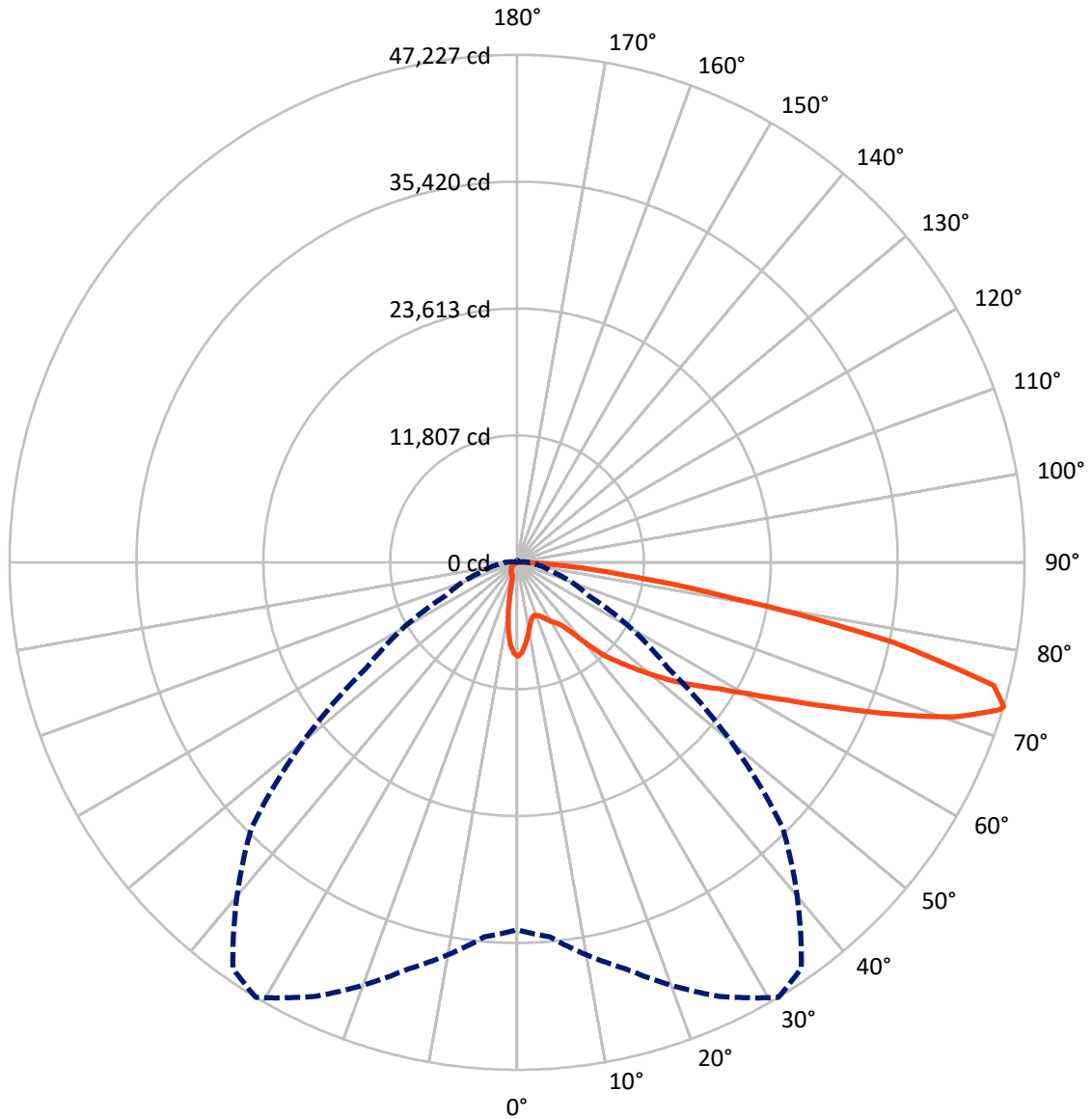
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4631.1	0.0	4631.1
	% Fixture	9.1	0.0	9.1
<b>Street Side</b>	Lumens	46174.6	0.0	46174.6
	% Fixture	90.9	0.0	90.9
<b>Total</b>	Lumens	50805.7	0.0	50805.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	724.8	1.4
10°-20°	1573.7	3.1
20°-30°	2357.8	4.6
30°-40°	3751.3	7.4
40°-50°	6698.8	13.2
50°-60°	10394.7	20.5
60°-70°	13818.3	27.2
70°-80°	10394.1	20.5
80°-90°	1092.2	2.1
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°	50805.7	100.0
0°-180°	50805.7	100.0

**Coefficient of Utilization**

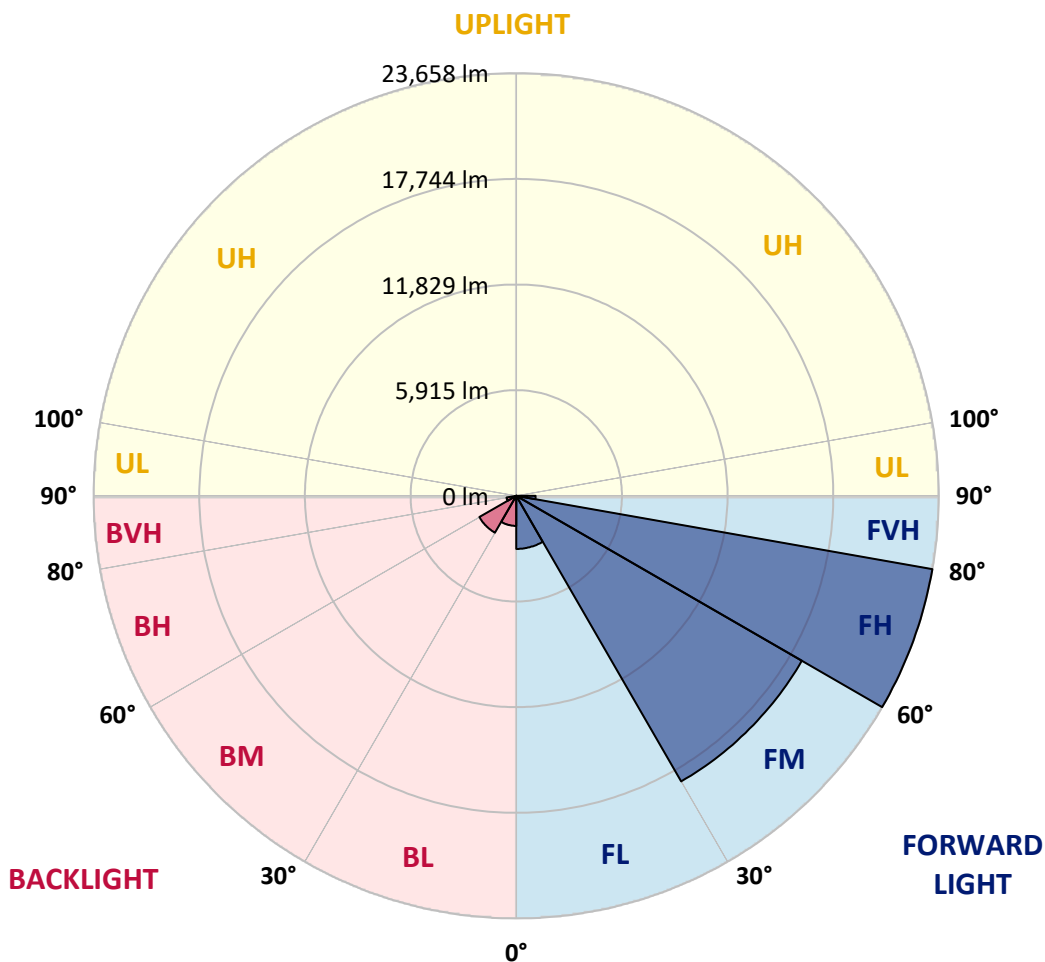


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2972.2	5.9			
FM (30°-60°)	18461.0	36.3			
FH (60°-80°)	23658.3	46.6			G5
FVH (80°-90°)	1083.0	2.1			G5
BL (0°-30°)	1684.1	3.3	B3/2500		
BM (30°-60°)	2383.8	4.7	B2/2500		
BH (60°-80°)	554.1	1.1	B2/1000		G2/1000
BVH (80°-90°)	9.2	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	8741.2	8741.2	8741.2	8741.2	8741.2	8741.2	8741.2	8741.2	8741.2	8741.2	8741.2
2.5°	8283.8	8318.5	8355.9	8363.3	8425.5	8428.0	8517.5	8584.6	8651.7	8716.4	8738.8
5°	7433.6	7490.7	7557.8	7624.9	7756.7	7808.9	8027.7	8251.5	8465.3	8669.2	8768.6
7.5°	6526.0	6590.7	6685.2	6851.7	6998.4	7100.3	7446.0	7843.7	8241.5	8616.9	8833.2
10°	5698.2	5757.9	5857.3	6033.8	6260.1	6399.3	6864.2	7416.1	8000.3	8569.7	8930.2
12.5°	5171.1	5203.4	5258.1	5447.1	5651.0	5807.5	6354.6	7038.2	7801.4	8567.2	9086.8
15°	5074.1	5084.1	5039.4	5123.9	5283.0	5434.6	5989.1	6732.4	7649.8	8606.9	9290.7
17.5°	5228.3	5223.4	5074.1	5064.3	5191.0	5315.3	5810.1	6521.1	7542.9	8699.0	9554.1
20°	5462.0	5444.6	5186.0	5138.8	5273.1	5389.9	5797.7	6441.6	7503.2	8853.1	9874.9
22.5°	5772.8	5743.0	5337.7	5288.0	5432.2	5554.0	5951.8	6518.6	7537.9	9059.5	10247.8
25°	6158.1	6113.4	5598.8	5544.1	5690.7	5812.6	6227.8	6739.9	7642.3	9310.5	10720.2
27.5°	6593.2	6528.6	6016.4	5874.7	6041.3	6168.1	6595.7	7078.0	7806.5	9576.6	11299.5
30°	7003.4	6918.9	6456.5	6222.7	6426.7	6568.3	6993.5	7480.8	8070.0	9986.7	12092.5
32.5°	7416.1	7321.7	6849.3	6570.9	6754.8	6908.9	7403.7	8035.2	8564.7	10613.3	13146.7
35°	8365.9	8266.4	7687.1	7227.1	7224.7	7311.7	7978.0	8793.4	9218.6	11485.9	14404.6
37.5°	9964.4	9907.2	9355.3	8482.7	8248.9	8152.0	8761.1	9698.3	10158.3	12686.7	15824.2
40°	11714.6	11664.9	11045.8	10255.3	9899.7	9661.1	9884.8	10958.8	11485.9	14153.6	17273.6
42.5°	13691.1	13454.9	12351.1	12114.9	11796.7	11615.2	11413.8	12512.6	13116.8	15749.6	18710.6
45°	15486.0	15088.3	13656.3	13298.3	13226.2	13270.9	13382.8	14601.0	14951.5	17646.5	20142.6
47.5°	16555.1	16241.9	15143.0	14799.9	14780.0	15075.9	15921.2	16960.3	16778.8	19299.8	21403.1
50°	17572.0	17288.5	16376.1	16460.6	16552.7	16955.4	18802.5	19386.8	18447.1	20798.9	22559.1
52.5°	18394.8	17962.3	17485.0	17959.8	18412.2	19061.1	21775.9	21564.7	19630.4	21992.3	23548.6
55°	18869.7	18673.3	18904.5	19381.9	20232.1	21286.2	24582.8	23377.0	20495.6	23081.2	24207.4
57.5°	20610.0	20224.6	20684.5	21097.2	22206.0	23680.3	26986.9	24727.0	21119.7	23754.9	24359.0
60°	22715.7	22404.9	22675.9	23362.1	24858.8	26591.6	29234.4	25828.4	21445.3	24187.5	23966.3
62.5°	26067.0	25656.9	25487.8	26255.9	28239.9	30131.8	30939.9	26591.6	21373.2	23996.1	22618.8
65°	30557.0	30131.8	29376.1	30072.2	32595.6	33930.7	32846.7	26753.2	20876.0	22447.2	19212.8
67.5°	35156.3	34848.1	34201.7	35375.1	37652.4	38082.5	34863.0	26360.4	19274.9	18200.9	13574.2
70°	38194.4	38062.6	38482.8	41078.3	43109.4	42985.1	36712.7	24249.7	15023.6	11192.5	6715.1
72.5°	36004.1	36635.5	39738.2	44444.5	46925.6	45911.3	35763.0	18621.1	8587.1	4306.0	1941.6
73°	34189.2	34997.2	39173.9	44571.3	47226.5	46115.1	34964.9	17092.1	7319.2	3398.6	1471.8
75°	23784.7	24776.7	32431.6	41510.9	45819.3	43937.3	29144.9	10461.7	3391.1	1506.6	594.1
77.5°	11548.0	12281.4	17857.9	29992.7	35633.7	34328.5	18143.8	3898.2	1531.5	942.3	273.5
80°	4310.9	4793.3	7751.8	15264.8	20592.6	21132.1	7980.5	1474.3	1019.3	758.3	139.3
82.5°	1128.7	1258.0	2859.0	6807.0	10553.6	11045.8	2515.9	743.4	745.8	624.0	84.5
85°	360.5	412.7	892.5	3055.5	4972.2	4365.6	656.4	360.5	542.0	464.9	47.2
87.5°	44.7	57.2	283.4	718.5	1096.3	609.1	101.9	106.9	231.2	258.6	27.4
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°	8741.2	8741.2	8741.2	8741.2	8741.2	8741.2	8741.2	8741.2	8741.2	8741.2	8741.2
2.5°	8761.1	8748.7	8751.1	8686.5	8644.3	8559.7	8472.7	8432.9	8390.6	8373.3	8390.6
5°	8805.8	8783.5	8718.8	8519.9	8308.7	8035.2	7779.1	7585.1	7341.5	7274.4	7344.0
7.5°	8875.5	8830.7	8641.8	8236.6	7766.7	7244.6	6657.9	6230.2	5879.6	5653.5	5735.5
10°	8977.4	8892.8	8512.5	7823.9	6983.5	6058.7	5225.8	4577.0	4117.1	3928.1	3920.6
12.5°	9148.9	8989.8	8353.4	7286.8	6026.4	4793.3	3701.9	2998.3	2625.4	2384.2	2379.3
15°	9337.9	9104.2	8152.0	6643.0	4912.6	3433.3	2384.2	1849.7	1608.5	1531.5	1521.5
17.5°	9569.1	9235.9	7891.0	5849.8	3746.6	2274.8	1556.3	1402.2	1392.2	1384.7	1384.7
20°	9860.0	9392.6	7555.3	4942.4	2657.7	1519.0	1322.6	1332.6	1337.5	1327.5	1330.1
22.5°	10198.1	9551.7	7155.0	3967.8	1797.5	1270.4	1265.4	1277.9	1282.8	1277.9	1280.3
25°	10590.9	9735.7	6667.8	2946.0	1297.7	1205.8	1218.2	1235.6	1248.0	1248.0	1248.0
27.5°	11078.2	9959.5	6081.0	2056.0	1121.2	1138.6	1173.5	1205.8	1223.2	1228.2	1228.2
30°	11712.2	10237.9	5377.5	1409.6	1019.3	1049.1	1113.8	1175.9	1208.2	1213.2	1215.7
32.5°	12512.6	10551.1	4562.1	1041.7	932.3	954.6	1024.3	1128.7	1190.9	1200.8	1200.8
35°	13430.0	10914.1	3684.5	907.4	870.2	877.6	932.3	1051.6	1161.0	1188.4	1190.9
37.5°	14434.4	11272.1	2801.9	847.8	817.9	817.9	857.7	959.7	1088.9	1173.5	1183.4
40°	15371.7	11488.4	1964.1	800.6	770.7	770.7	805.5	880.1	1001.9	1128.7	1156.1
42.5°	16236.9	11562.9	1367.3	755.8	726.0	733.4	763.2	822.9	914.9	1041.7	1066.5
45°	17127.0	11550.5	996.9	703.6	681.2	703.6	726.0	770.7	837.8	909.9	914.9
47.5°	17798.1	11446.1	790.6	653.9	638.9	668.8	688.7	718.5	755.8	750.8	750.8
50°	18427.1	11192.5	636.4	586.7	596.7	631.5	641.5	651.3	653.9	606.6	601.7
52.5°	18904.5	10797.3	509.6	514.6	554.4	589.2	579.2	564.3	539.5	482.3	472.4
55°	19063.7	10036.5	400.3	425.2	492.2	537.0	499.7	467.4	420.1	372.9	362.9
57.5°	18775.2	9054.5	325.7	330.7	415.2	452.5	410.3	372.9	320.7	281.0	273.5
60°	18163.6	7963.1	268.5	248.6	320.7	353.1	325.7	288.4	241.2	211.3	208.9
62.5°	16950.4	6799.6	221.2	193.9	243.6	271.0	253.6	226.3	186.5	166.6	164.0
65°	14399.7	5439.7	179.0	156.6	188.9	211.3	196.4	176.5	146.7	131.7	129.3
67.5°	10051.4	3677.0	146.7	129.3	149.1	166.6	154.2	144.2	116.8	114.4	116.8
70°	4848.0	1772.6	121.8	104.4	116.8	129.3	124.3	116.8	111.9	129.3	149.1
72.5°	1389.8	594.1	97.0	87.0	94.5	101.9	106.9	104.4	121.8	156.6	181.5
73°	1069.0	479.8	91.9	82.1	89.5	99.5	104.4	101.9	124.3	159.1	181.5
75°	457.5	231.2	69.6	67.2	74.6	87.0	91.9	91.9	124.3	161.6	174.0
77.5°	206.3	124.3	44.7	52.2	64.6	69.6	77.0	77.0	99.5	124.3	124.3
80°	116.8	67.2	34.8	39.8	47.2	47.2	47.2	42.3	44.7	49.7	54.7
82.5°	74.6	44.7	27.4	32.3	29.8	24.9	19.9	19.9	17.4	19.9	24.9
85°	42.3	24.9	24.9	19.9	12.4	10.0	12.4	10.0	2.5	0.0	2.5
87.5°	24.9	14.9	7.5	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)