

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: P192024

Luminaire Tested: **GLEON-AF-06-LED-E1-SL4-7050-1200-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192024  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-06-LED-E1-SL4-7050-1200-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31697 lumens  
Efficiency: N/A  
Efficacy: 83.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G5

Input Watts (W): 382  
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

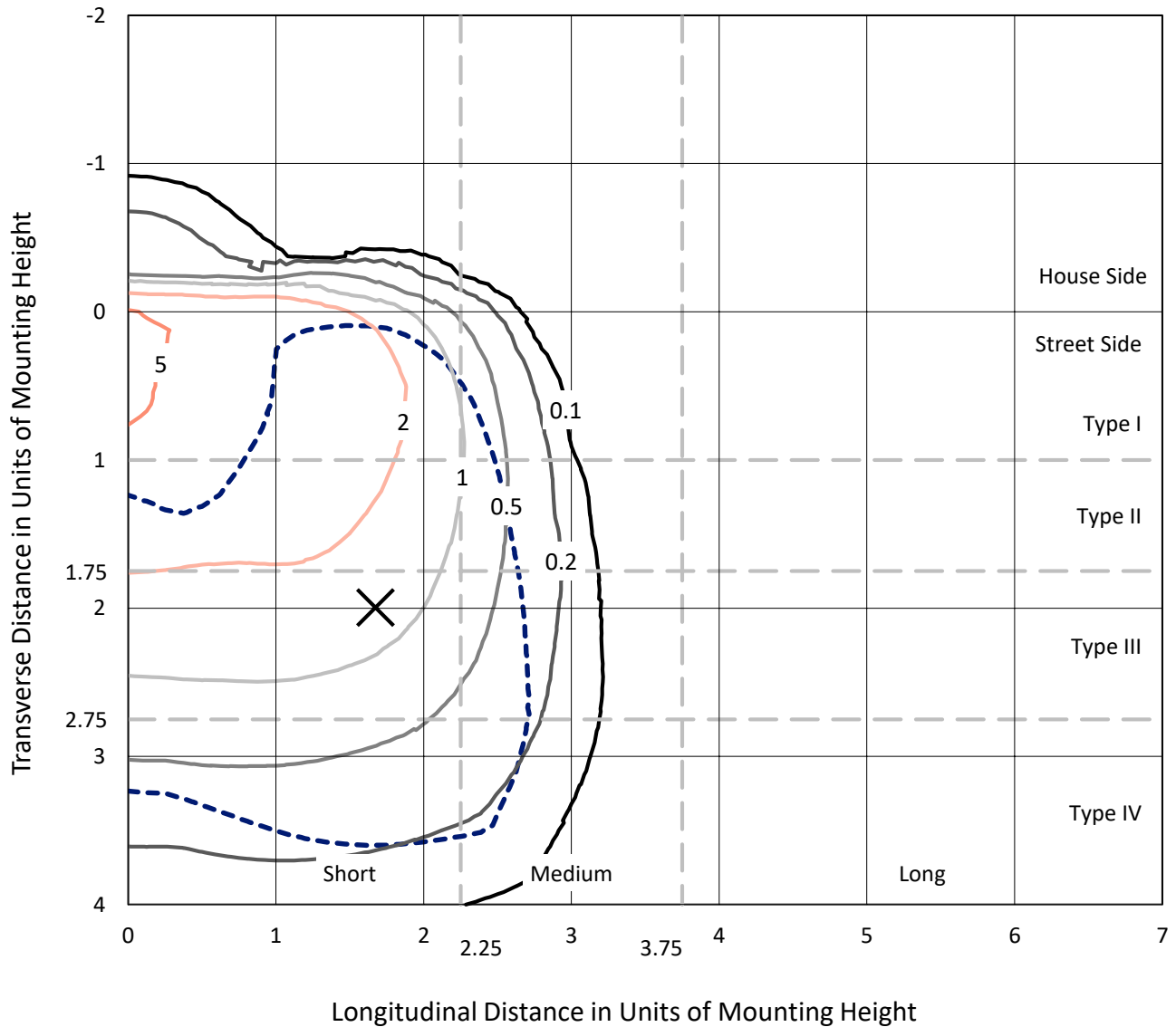


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

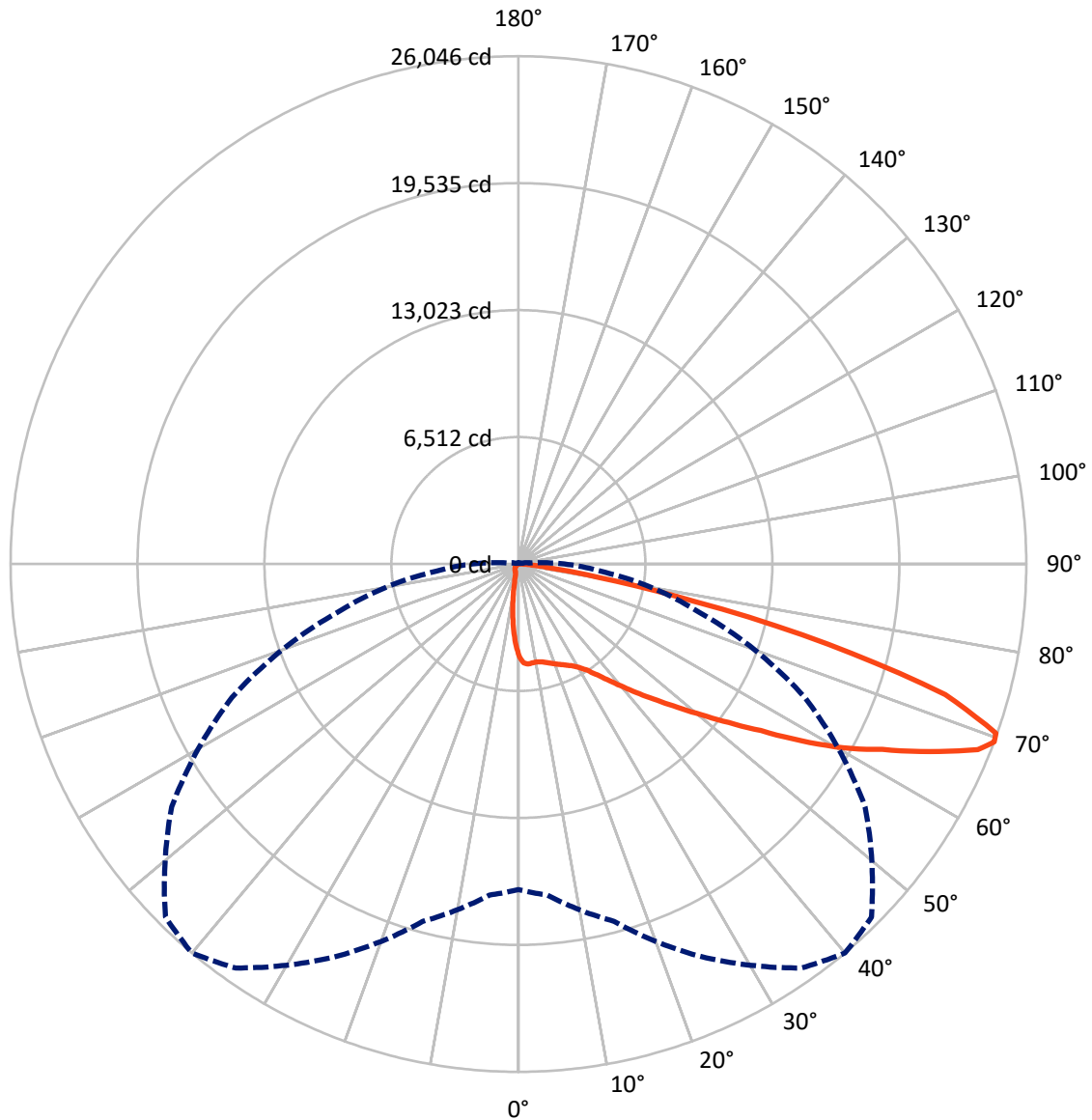


Based on 30 foot mounting height. Maximum calculated value = 5.8 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1854.4	0.0	1854.4
	% Fixture	5.9	0.0	5.9
<b>Street Side</b>	Lumens	29842.5	0.0	29842.5
	% Fixture	94.1	0.0	94.1
<b>Total</b>	Lumens	31697.0	0.0	31697.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	384.0	1.2
10°-20°	944.3	3.0
20°-30°	1590.5	5.0
30°-40°	2603.6	8.2
40°-50°	4508.1	14.2
50°-60°	7100.7	22.4
60°-70°	9273.2	29.3
70°-80°	4776.1	15.1
80°-90°	516.6	1.6
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°	31697.0	100.0
0°-180°	31697.0	100.0

**Coefficient of Utilization**



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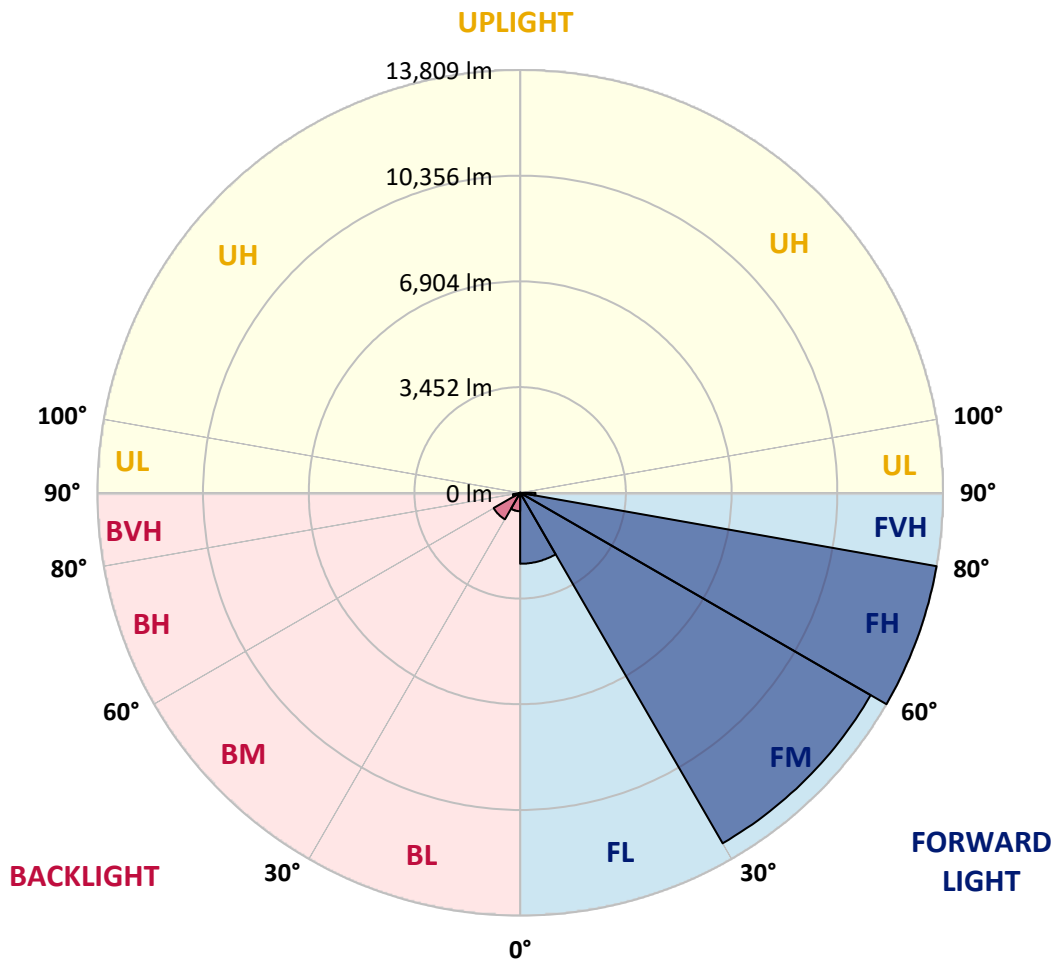
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2318.0	7.3			
FM	(30°-60°)	13215.7	41.7			
FH	(60°-80°)	13808.5	43.6			G5
FVH	(80°-90°)	500.4	1.6			G4/750
BL	(0°-30°)	600.7	1.9	B2/1000		
BM	(30°-60°)	996.7	3.1	B1/1000		
BH	(60°-80°)	240.8	0.8	B1/500		G1/500
BVH	(80°-90°)	16.2	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	4735.7	4735.7	4735.7	4735.7	4735.7	4735.7	4735.7	4735.7	4735.7	4735.7	4735.7
2.5°	5199.8	5171.5	5154.5	5131.9	5103.6	5079.1	5069.6	4999.8	4933.8	4843.2	4739.5
5°	5296.1	5286.6	5256.4	5226.2	5192.3	5154.5	5133.8	5050.8	4956.4	4824.4	4643.2
7.5°	5305.5	5294.2	5256.4	5214.9	5167.8	5122.5	5086.6	5003.6	4916.8	4782.9	4562.1
10°	5290.4	5277.2	5248.9	5203.6	5145.1	5101.7	5065.9	4986.6	4913.0	4792.3	4547.0
12.5°	5273.4	5260.2	5247.0	5224.4	5173.4	5143.2	5113.0	5037.6	4971.5	4869.7	4601.7
15°	5290.4	5282.8	5297.9	5288.5	5260.2	5233.8	5203.6	5135.7	5075.3	4990.4	4701.7
17.5°	5362.1	5362.1	5409.3	5414.9	5388.5	5350.8	5307.4	5239.5	5188.5	5116.8	4820.6
20°	5530.0	5524.3	5584.7	5596.0	5531.9	5473.4	5409.3	5326.2	5286.6	5241.3	4937.6
22.5°	5818.7	5792.3	5828.1	5816.8	5690.4	5599.8	5520.6	5418.7	5397.9	5377.2	5067.8
25°	6194.1	6179.0	6203.6	6092.3	5869.6	5747.0	5652.6	5537.6	5537.6	5558.3	5214.9
27.5°	6739.4	6682.8	6599.8	6403.6	6069.6	5913.0	5811.1	5688.5	5720.6	5797.9	5409.3
30°	7297.9	7235.6	7045.1	6743.2	6313.0	6148.9	6030.0	5901.7	5977.2	6118.7	5669.6
32.5°	7848.8	7779.0	7509.2	7128.1	6662.0	6497.9	6382.8	6241.3	6367.7	6605.4	6050.7
35°	8382.7	8320.5	8009.2	7560.1	7126.2	6990.3	6884.7	6762.0	6924.3	7256.4	6588.5
37.5°	8982.7	8914.8	8535.6	8048.8	7690.3	7592.2	7514.8	7392.2	7675.2	8162.0	7337.5
40°	9720.4	9605.3	9094.0	8609.2	8343.1	8296.0	8243.1	8226.1	8665.8	9339.3	8335.6
42.5°	10565.7	10377.0	9678.9	9199.7	9060.1	9094.0	9080.8	9156.3	9905.3	10803.4	9550.6
45°	11410.9	11167.6	10329.9	9829.9	9848.7	9967.6	10041.2	10343.1	11458.1	12482.6	10858.1
47.5°	12127.9	11888.3	10954.4	10511.0	10737.4	10971.3	11171.3	11743.0	13054.3	14135.4	11875.1
50°	12741.1	12514.7	11616.6	11260.0	11769.4	12146.8	12471.3	13318.4	14771.2	15393.8	12588.3
52.5°	13243.0	13092.0	12303.4	12118.5	12948.6	13501.4	13976.9	14992.0	16291.9	16416.4	13143.0
55°	13731.6	13624.1	13041.1	13139.2	14333.5	15086.3	15688.2	16767.4	17601.3	17269.2	13675.0
57.5°	14293.9	14195.8	13882.6	14433.5	16154.2	17101.3	17757.9	18340.9	18754.1	18140.9	14176.9
60°	14867.4	14810.8	14818.4	15871.2	18244.7	19154.1	19516.3	19667.3	19886.1	18961.6	14205.2
62.5°	15414.6	15522.1	15888.2	17471.1	20246.5	20944.6	21127.6	21276.7	21020.1	19091.8	13124.1
65°	16341.0	16516.4	17390.0	19612.6	22448.3	23195.5	23384.1	22872.8	21199.3	17408.9	10675.1
67.5°	16793.8	17114.5	18673.0	21608.7	24584.1	25414.3	25344.5	22976.6	19023.9	13275.0	6850.7
69°	16699.5	17041.0	18969.2	22220.0	25293.5	26046.3	25602.9	21706.8	16207.0	9616.7	4205.5
70°	16325.9	16671.2	18816.4	22197.4	25384.1	25980.3	25123.7	20139.0	13703.3	7031.8	2630.1
72.5°	13633.5	13931.6	16705.1	20063.5	23384.1	22899.3	21018.2	13952.4	6677.1	1915.0	592.4
75°	8392.2	8558.2	11986.4	15114.6	17661.7	16416.4	14003.3	6941.3	1990.5	541.5	328.3
77.5°	4433.8	4509.3	6562.1	8909.1	11195.9	9263.8	7177.1	2707.5	917.0	339.6	237.7
80°	2620.7	2677.3	3533.8	4073.5	4845.1	4047.0	2869.7	1662.2	656.6	213.2	211.3
82.5°	1500.0	1535.8	2562.2	2264.1	1909.4	1630.1	1428.3	1575.4	394.3	143.4	218.9
85°	550.9	558.5	1441.5	1722.6	1135.8	675.4	709.4	1305.6	105.7	90.6	171.7
87.5°	256.6	250.9	741.5	1054.7	664.1	428.3	552.8	286.8	41.5	58.5	47.2
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°	4735.7	4735.7	4735.7	4735.7	4735.7	4735.7	4735.7	4735.7	4735.7	4735.7	4735.7
2.5°	4679.1	4609.3	4482.9	4352.7	4220.6	4118.7	4018.7	3939.5	3913.1	3864.0	3867.8
5°	4535.7	4407.4	4143.3	3875.3	3596.1	3365.9	3149.0	2973.5	2888.6	2801.8	2801.8
7.5°	4411.2	4224.4	3811.2	3375.4	2924.4	2545.2	2203.7	1947.1	1805.6	1692.4	1690.5
10°	4364.0	4111.2	3533.8	2909.3	2281.1	1764.1	1358.4	1098.1	964.1	877.3	873.6
12.5°	4384.8	4071.6	3320.6	2479.2	1690.5	1133.9	786.8	618.8	562.2	535.8	535.8
15°	4445.1	4060.2	3107.4	2058.4	1194.3	709.4	522.6	477.3	473.6	473.6	473.6
17.5°	4518.7	4064.0	2888.6	1649.0	813.2	507.5	450.9	445.3	449.0	449.0	449.0
20°	4594.2	4065.9	2652.7	1269.8	573.6	441.5	424.5	422.6	426.4	426.4	428.3
22.5°	4686.6	4075.3	2416.9	949.0	473.6	417.0	403.8	403.8	405.6	405.6	403.8
25°	4792.3	4094.2	2171.6	703.8	432.1	400.0	388.7	386.8	388.7	386.8	384.9
27.5°	4924.4	4120.6	1898.1	550.9	413.2	383.0	373.6	373.6	371.7	369.8	367.9
30°	5090.4	4150.8	1590.5	467.9	394.3	367.9	358.5	356.6	354.7	350.9	350.9
32.5°	5343.2	4216.8	1286.8	424.5	373.6	347.2	339.6	339.6	335.8	332.1	330.2
35°	5731.9	4347.0	1015.1	398.1	350.9	324.5	315.1	315.1	311.3	309.4	307.5
37.5°	6269.6	4545.1	788.7	373.6	328.3	300.0	290.6	288.7	284.9	281.1	279.2
40°	6984.7	4790.4	620.7	350.9	305.7	275.5	267.9	264.1	256.6	250.9	250.9
42.5°	7882.8	5069.6	503.8	326.4	279.2	252.8	247.2	241.5	228.3	222.6	220.7
45°	8822.4	5320.6	426.4	298.1	252.8	230.2	226.4	217.0	200.0	194.3	194.3
47.5°	9499.7	5379.1	375.5	271.7	228.3	205.7	203.8	186.8	171.7	167.9	166.0
50°	9922.3	5264.0	334.0	245.3	205.7	183.0	177.4	156.6	147.2	143.4	141.5
52.5°	10207.2	5058.3	300.0	222.6	184.9	162.3	149.1	134.0	126.4	122.6	122.6
55°	10435.5	4767.8	266.0	201.9	167.9	145.3	126.4	115.1	107.5	103.8	103.8
57.5°	10499.7	4373.4	232.1	184.9	150.9	128.3	107.5	100.0	90.6	88.7	88.7
60°	10033.6	3662.1	205.7	164.1	135.8	111.3	94.3	84.9	75.5	73.6	71.7
62.5°	8805.4	2833.9	181.1	145.3	118.9	96.2	81.1	69.8	62.3	62.3	62.3
65°	6716.8	1899.9	158.5	126.4	103.8	81.1	69.8	56.6	52.8	52.8	54.7
67.5°	4020.6	1033.9	135.8	107.5	88.7	67.9	58.5	49.1	47.2	49.1	49.1
69°	2356.5	607.5	122.6	96.2	77.4	60.4	50.9	43.4	47.2	49.1	49.1
70°	1454.7	409.4	113.2	86.8	69.8	54.7	47.2	41.5	45.3	47.2	47.2
72.5°	405.6	211.3	90.6	67.9	56.6	45.3	37.7	37.7	43.4	45.3	45.3
75°	264.1	156.6	69.8	50.9	43.4	35.8	32.1	35.8	41.5	43.4	43.4
77.5°	218.9	128.3	56.6	41.5	35.8	34.0	30.2	32.1	37.7	39.6	39.6
80°	200.0	90.6	45.3	37.7	32.1	30.2	28.3	26.4	34.0	35.8	35.8
82.5°	190.6	71.7	39.6	34.0	30.2	26.4	24.5	26.4	30.2	32.1	34.0
85°	118.9	47.2	35.8	32.1	26.4	24.5	24.5	24.5	28.3	30.2	30.2
87.5°	43.4	37.7	32.1	26.4	22.6	22.6	22.6	22.6	24.5	28.3	28.3
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)