

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: P299261

Luminaire Tested: **GLNA-AF-08-LED-E1-SL2-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299261
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-08-LED-E1-SL2-7050-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V
Narrow OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30679.6 lumens
Efficiency: N/A
Efficacy: 119.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G4

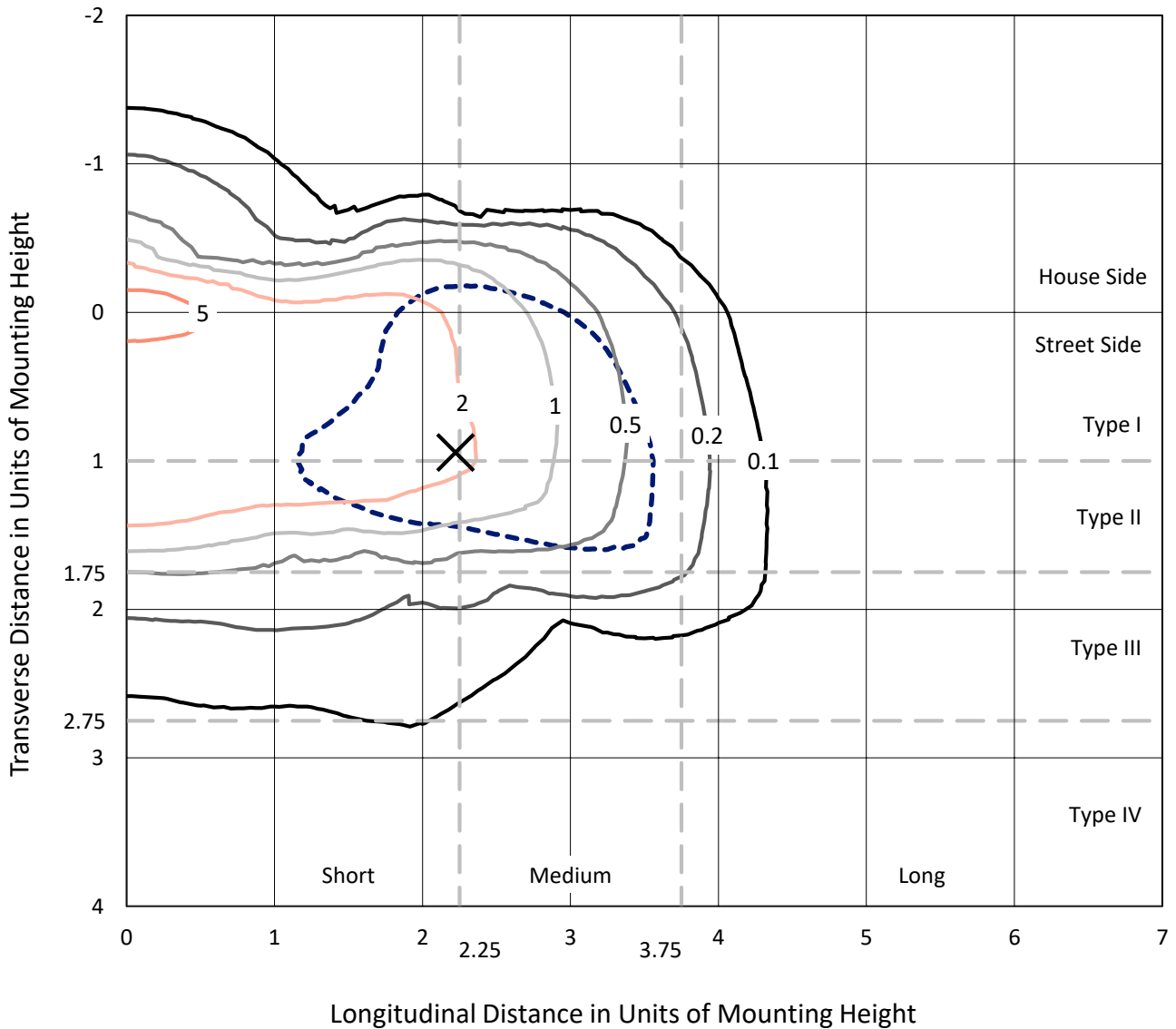
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

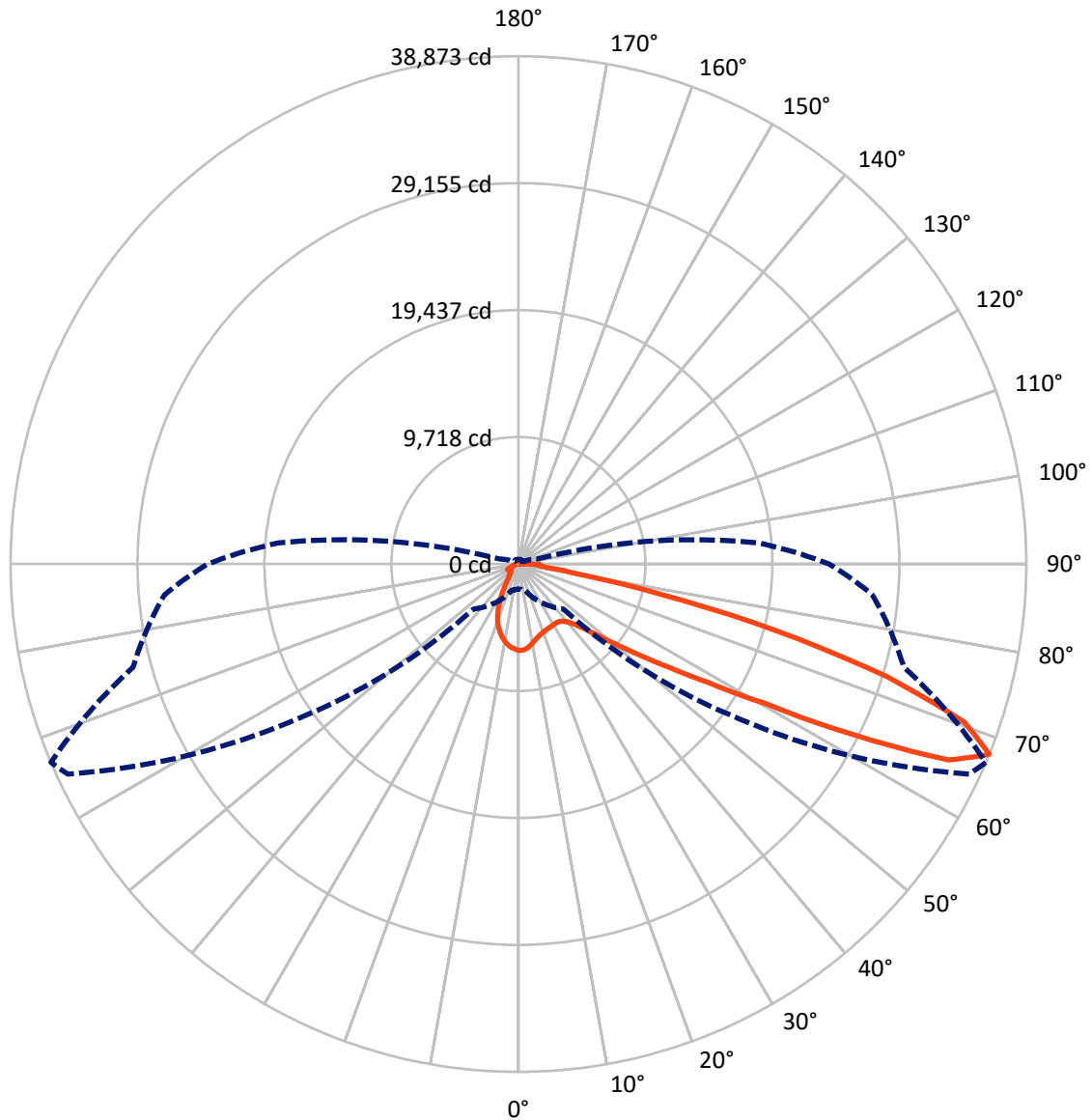
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.4 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5083.3	0.0	5083.3
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	25596.3	0.0	25596.3
	% Fixture	83.4	0.0	83.4
Total	Lumens	30679.6	0.0	30679.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	564.6	1.8
10°-20°	1306.3	4.3
20°-30°	1770.8	5.8
30°-40°	2517.3	8.2
40°-50°	4211.6	13.7
50°-60°	6662.7	21.7
60°-70°	8487.6	27.7
70°-80°	4445.8	14.5
80°-90°	713.0	2.3
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°	30679.6	100.0
0°-180°	30679.6	100.0

Coefficient of Utilization



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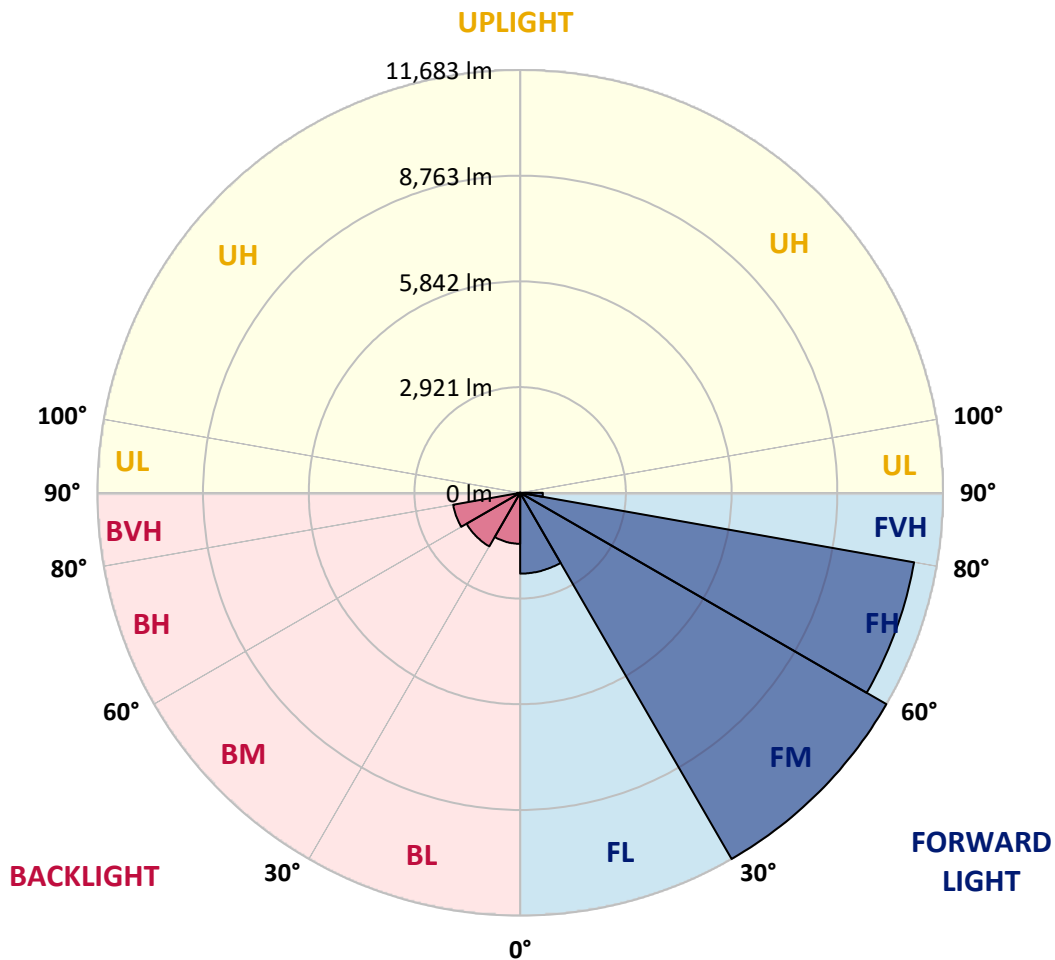
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2232.7	7.3			
FM (30°-60°)	11683.4	38.1			
FH (60°-80°)	11053.2	36.0			G4/12000
FVH (80°-90°)	627.0	2.0			G4/750
BL (0°-30°)	1408.9	4.6	B3/2500		
BM (30°-60°)	1708.1	5.6	B2/2500		
BH (60°-80°)	1880.1	6.1	B3/2500		G3/2500
BVH (80°-90°)	86.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	6617.5	6617.5	6617.5	6617.5	6617.5	6617.5	6617.5	6617.5	6617.5	6617.5	6617.5
2.5°	6345.2	6355.8	6389.1	6410.2	6505.6	6546.4	6575.2	6603.9	6608.4	6622.1	6608.4
5°	5679.5	5702.2	5764.2	5833.8	6018.4	6163.6	6316.4	6475.3	6504.0	6606.9	6635.7
7.5°	5163.6	5157.5	5209.0	5292.2	5481.3	5682.5	5950.3	6266.5	6328.5	6560.0	6672.0
10°	4786.9	4782.3	4836.8	4923.0	5103.1	5293.7	5596.3	6029.0	6116.7	6485.9	6706.8
12.5°	4508.5	4510.0	4564.5	4659.8	4842.9	5035.0	5342.1	5799.0	5911.0	6399.7	6743.1
15°	4323.9	4336.0	4379.9	4481.3	4659.8	4851.9	5153.0	5626.6	5752.1	6331.6	6783.9
17.5°	4261.9	4281.6	4296.7	4370.8	4523.6	4715.8	5010.8	5499.5	5632.6	6284.7	6820.2
20°	4319.4	4342.1	4313.3	4339.1	4435.9	4605.3	4898.8	5399.6	5535.8	6231.7	6824.8
22.5°	4566.0	4587.2	4502.5	4428.3	4422.3	4525.1	4806.6	5320.9	5461.6	6192.4	6826.3
25°	5000.2	5013.8	4871.6	4699.1	4531.2	4496.4	4741.5	5266.5	5416.3	6157.6	6797.6
27.5°	5532.8	5543.3	5379.9	5125.8	4788.4	4564.5	4718.8	5234.7	5390.5	6127.3	6749.1
30°	6180.3	6230.2	6010.8	5690.1	5198.4	4765.7	4764.2	5218.1	5361.8	6075.9	6653.8
32.5°	6842.9	6864.1	6712.8	6387.6	5750.6	5119.7	4891.3	5230.2	5354.2	6013.9	6532.8
35°	7514.7	7541.9	7443.6	7181.8	6505.6	5638.7	5139.4	5301.3	5401.1	5992.7	6448.1
37.5°	8384.6	8420.9	8284.8	7982.2	7423.9	6342.2	5552.4	5479.8	5544.9	6053.2	6422.4
40°	9759.9	9743.2	9345.3	8894.5	8428.5	7242.4	6142.5	5782.4	5820.2	6248.4	6501.0
42.5°	11360.5	11319.7	10634.3	9926.3	9532.9	8331.7	6923.1	6307.4	6299.8	6632.6	6777.9
45°	12637.4	12604.1	11986.9	11113.9	10799.2	9572.3	7932.2	7089.5	7033.6	7242.4	7289.3
47.5°	13328.8	13330.3	12974.8	12262.2	12254.7	11148.7	9228.8	8221.2	8124.4	8222.7	8172.8
50°	13086.8	13118.5	13080.7	12853.8	13583.0	13215.4	10921.8	9799.2	9604.0	9700.9	9508.7
52.5°	11915.8	11956.6	12180.5	12528.5	14141.3	15713.2	13409.0	11759.9	11533.0	11498.2	11284.9
55°	9840.0	9890.0	10346.9	11292.4	13676.8	17391.0	17333.5	14259.3	13897.7	13569.4	13478.6
57.5°	6782.4	6865.6	7600.9	9004.9	12174.5	17897.9	22007.0	17822.2	17086.9	15940.1	15961.3
60°	3823.2	3920.0	4786.9	6062.3	9142.6	17347.2	25562.3	23218.8	21666.5	18716.3	18873.7
62.5°	2431.3	2535.7	3193.8	4212.0	5485.9	14381.8	27019.3	30721.4	28750.0	22138.6	22292.9
65°	1968.3	2013.7	2323.8	3476.7	3983.5	8664.5	25913.3	36901.7	36166.4	26482.2	25762.0
67.5°	1921.4	1936.5	2096.9	2918.4	3820.1	4870.1	20669.5	38057.5	38873.0	30538.3	27206.9
70°	1898.7	1951.7	2363.2	2785.3	3658.2	4107.6	12421.1	34889.5	36177.0	31598.9	25283.9
72.5°	921.4	918.3	1189.2	2519.0	4121.2	4260.4	6381.5	28229.6	29521.6	27376.3	20776.9
75°	742.8	679.3	649.0	922.9	3962.3	4399.6	4066.7	19424.4	20359.4	18354.8	12772.1
77.5°	705.0	629.4	576.4	577.9	1674.8	4665.8	3444.9	10750.8	11023.1	8290.8	3499.4
80°	584.0	514.4	476.6	537.1	810.9	4443.4	3724.8	4865.6	4464.6	2036.4	1164.9
82.5°	405.5	369.2	358.6	450.9	649.0	3166.5	4331.5	2614.3	2192.2	1019.7	718.6
85°	258.7	220.9	245.1	328.3	505.3	1461.5	4461.6	2037.9	1620.3	647.5	405.5
87.5°	119.5	96.8	121.0	181.6	329.8	503.8	4245.3	2289.0	1668.8	341.9	255.7
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°	6617.5	6617.5	6617.5	6617.5	6617.5	6617.5	6617.5	6617.5	6617.5	6617.5	6617.5
2.5°	6620.5	6591.8	6569.1	6526.7	6479.8	6434.5	6393.6	6342.2	6327.0	6313.4	6334.6
5°	6641.7	6613.0	6529.8	6399.7	6255.9	6121.3	5986.6	5871.6	5800.5	5761.2	5783.9
7.5°	6673.5	6632.6	6460.2	6221.1	5962.4	5726.4	5482.8	5287.7	5143.9	5075.9	5095.5
10°	6702.2	6623.6	6342.2	5983.6	5605.4	5254.4	4870.1	4552.4	4316.4	4192.3	4222.6
12.5°	6714.3	6588.8	6177.3	5687.1	5168.1	4653.7	4087.9	3612.9	3274.0	3149.9	3124.2
15°	6726.4	6549.4	5995.7	5349.7	4640.1	3912.4	3119.6	2550.8	2269.4	2207.4	2193.7
17.5°	6729.5	6481.4	5789.9	4983.6	4021.3	3030.4	2133.2	1771.6	1773.1	1873.0	1885.1
20°	6697.7	6380.0	5540.3	4528.2	3280.0	2095.4	1464.5	1402.5	1630.9	1880.6	1910.8
22.5°	6625.1	6245.3	5257.4	3997.1	2431.3	1379.8	1133.2	1201.3	1496.3	1801.9	1836.7
25°	6532.8	6081.9	4923.0	3381.4	1609.7	986.4	950.1	1033.3	1233.0	1437.3	1456.9
27.5°	6407.2	5888.3	4547.8	2676.4	1045.4	812.4	836.6	892.6	974.3	1065.1	1074.2
30°	6245.3	5656.8	4146.9	1951.7	789.7	730.7	765.5	795.8	830.6	882.0	886.6
32.5°	6059.2	5434.4	3735.4	1348.0	700.5	688.4	715.6	730.7	758.0	789.7	792.8
35°	5903.4	5222.6	3308.8	953.1	662.7	656.6	674.8	680.8	706.5	741.3	744.4
37.5°	5814.2	5050.1	2868.5	768.6	636.9	627.9	638.5	638.5	674.8	726.2	733.8
40°	5820.2	4954.8	2428.2	694.4	615.8	603.7	605.2	605.2	652.1	708.0	712.6
42.5°	5985.1	4979.0	2037.9	665.7	599.1	585.5	577.9	582.5	621.8	658.1	661.1
45°	6372.4	5150.0	1671.8	647.5	582.5	577.9	561.3	559.8	574.9	591.6	591.6
47.5°	7007.9	5487.4	1423.7	635.4	568.9	567.3	547.7	528.0	526.5	532.5	532.5
50°	8041.2	6068.3	1257.2	621.8	559.8	547.7	525.0	494.7	484.1	488.7	488.7
52.5°	9590.4	7104.7	1193.7	603.7	540.1	520.4	494.7	464.5	455.4	456.9	456.9
55°	11622.3	8696.3	1184.6	582.5	518.9	487.2	466.0	443.3	432.7	435.7	435.7
57.5°	14105.0	10897.6	1346.5	549.2	490.2	453.9	441.8	426.6	419.1	423.6	422.1
60°	17123.2	13778.2	1997.1	514.4	461.4	423.6	423.6	411.5	405.5	410.0	408.5
62.5°	20599.9	17086.9	2808.0	488.7	431.2	399.4	405.5	399.4	393.4	396.4	394.9
65°	23683.3	19242.8	2629.5	469.0	400.9	376.7	387.3	384.3	379.7	382.8	381.3
67.5°	23772.5	18444.0	1476.6	447.8	372.2	354.0	369.2	367.6	364.6	367.6	366.1
70°	21215.7	15574.0	832.1	408.5	341.9	326.8	348.0	346.5	343.4	349.5	348.0
72.5°	16997.7	11301.5	608.2	360.1	311.7	298.0	322.3	320.7	320.7	329.8	325.3
75°	9781.0	5815.7	485.6	308.6	279.9	269.3	290.5	292.0	295.0	307.1	298.0
77.5°	2788.3	1812.5	396.4	261.7	240.6	236.0	257.2	260.2	261.7	275.4	263.2
80°	1036.4	835.1	326.8	219.4	196.7	198.2	217.9	222.4	223.9	237.5	222.4
82.5°	661.1	550.7	264.8	169.4	154.3	152.8	177.0	183.1	183.1	184.6	175.5
85°	385.8	329.8	199.7	122.5	108.9	104.4	131.6	142.2	137.7	134.6	128.6
87.5°	258.7	226.9	122.5	68.1	59.0	56.0	77.2	84.7	81.7	77.2	72.6
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)