

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: P299258

Luminaire Tested: **GLNA-AF-08-LED-E1-SL2-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299258
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-SL2-7030-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V
Narrow OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29675.8 lumens
Efficiency: N/A
Efficacy: 115.5 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

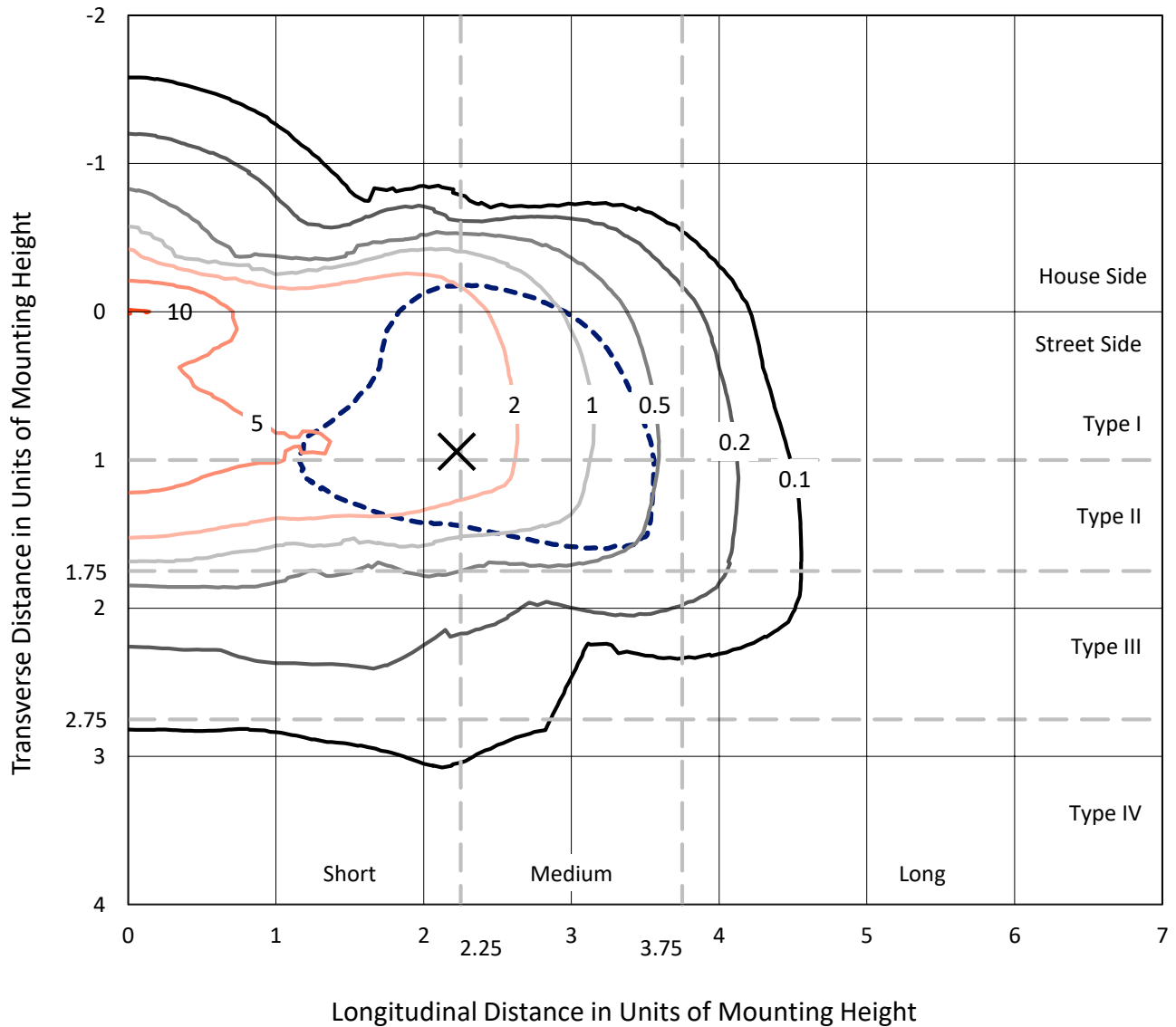
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

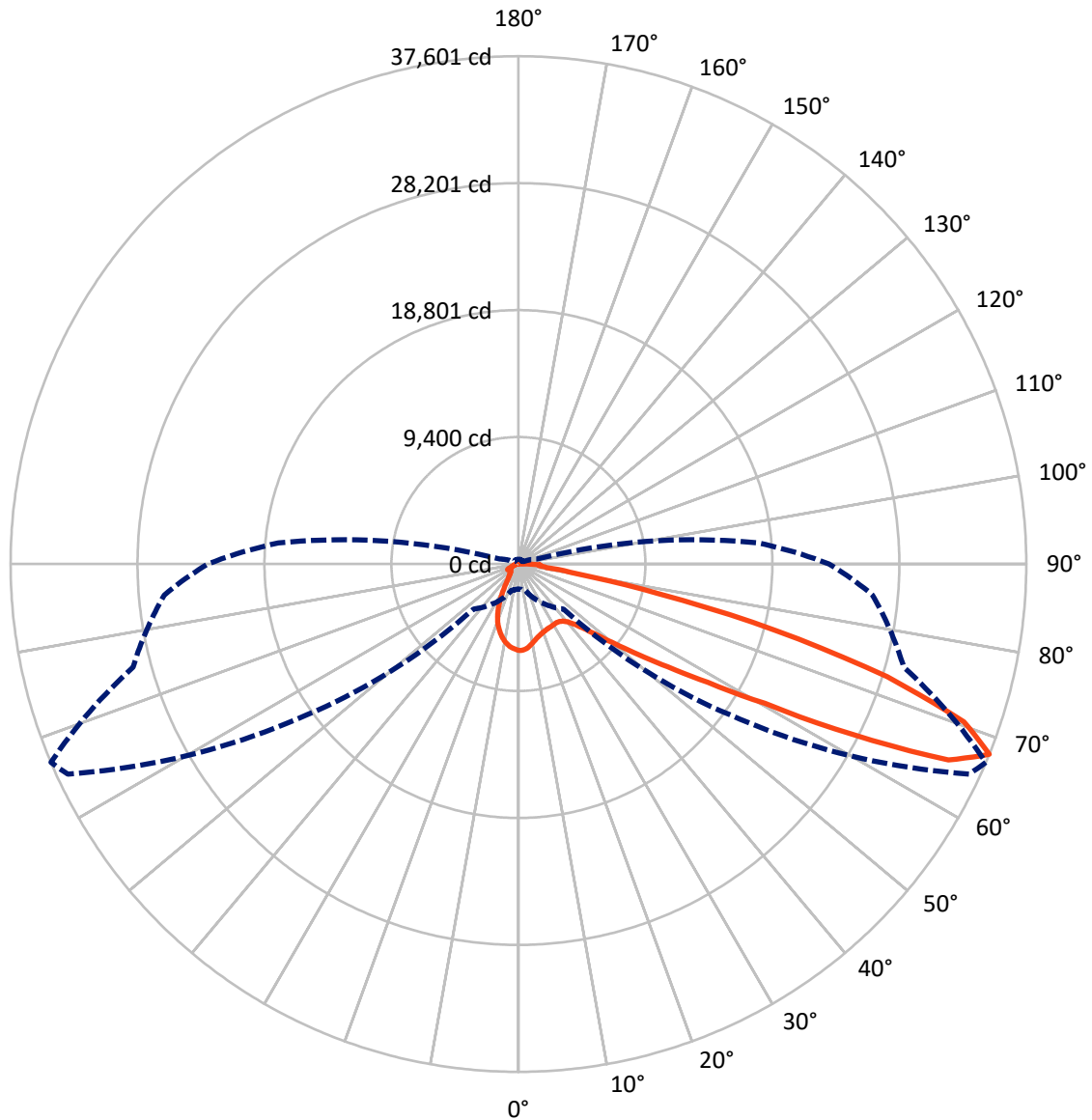
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 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	4916.9	0.0	4916.9
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	24758.8	0.0	24758.8
	% Fixture	83.4	0.0	83.4
Total	Lumens	29675.8	0.0	29675.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	546.1	1.8
10°-20°	1263.6	4.3
20°-30°	1712.8	5.8
30°-40°	2434.9	8.2
40°-50°	4073.8	13.7
50°-60°	6444.7	21.7
60°-70°	8209.9	27.7
70°-80°	4300.3	14.5
80°-90°	689.7	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°	29675.8	100.0
0°-180°	29675.8	100.0

Coefficient of Utilization



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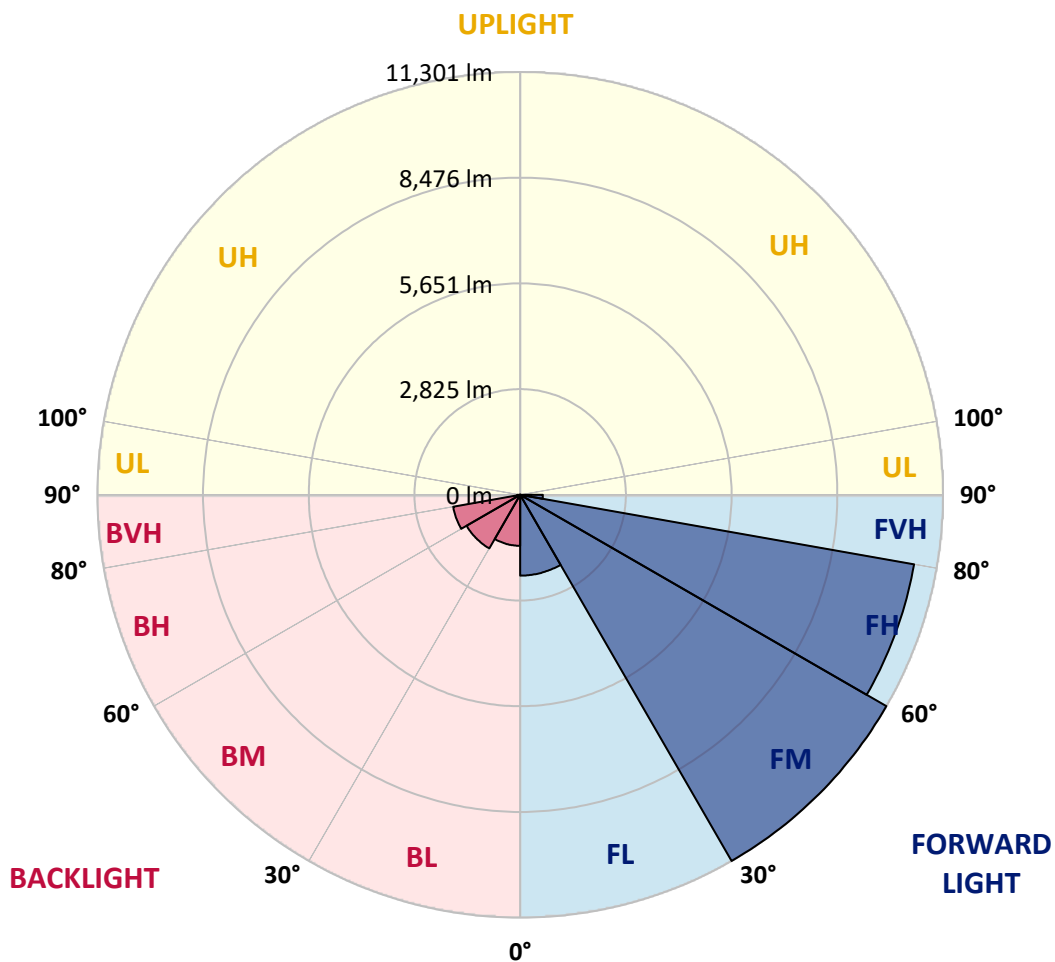
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2159.7	7.3			
FM (30°-60°)	11301.1	38.1			
FH (60°-80°)	10691.6	36.0			G4/12000
FVH (80°-90°)	606.4	2.0			G4/750
BL (0°-30°)	1362.8	4.6	B3/2500		
BM (30°-60°)	1652.2	5.6	B2/2500		
BH (60°-80°)	1818.6	6.1	B3/2500		G3/2500
BVH (80°-90°)	83.2	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°	6401.0	6401.0	6401.0	6401.0	6401.0	6401.0	6401.0	6401.0	6401.0	6401.0	6401.0
2.5°	6137.6	6147.8	6180.0	6200.5	6292.7	6332.2	6360.0	6387.8	6392.2	6405.4	6392.2
5°	5493.7	5515.6	5575.6	5642.9	5821.5	5962.0	6109.8	6263.4	6291.2	6390.7	6418.5
7.5°	4994.6	4988.8	5038.5	5119.0	5302.0	5496.6	5755.6	6061.5	6121.5	6345.4	6453.7
10°	4630.3	4625.9	4678.5	4762.0	4936.1	5120.5	5413.2	5831.7	5916.6	6273.7	6487.3
12.5°	4361.0	4362.4	4415.1	4507.3	4684.4	4870.3	5167.3	5609.3	5717.6	6190.3	6522.5
15°	4182.4	4194.2	4236.6	4334.6	4507.3	4693.2	4984.4	5442.4	5563.9	6124.4	6562.0
17.5°	4122.4	4141.5	4156.1	4227.8	4375.6	4561.5	4846.8	5319.5	5448.3	6079.0	6597.1
20°	4178.1	4200.0	4172.2	4197.1	4290.7	4454.6	4738.5	5222.9	5354.6	6027.8	6601.5
22.5°	4416.6	4437.1	4355.1	4283.4	4277.6	4377.1	4649.3	5146.8	5282.9	5989.8	6602.9
25°	4836.6	4849.8	4712.2	4545.4	4382.9	4349.3	4586.3	5094.2	5239.0	5956.1	6575.1
27.5°	5351.7	5362.0	5203.9	4958.1	4631.7	4415.1	4564.4	5063.4	5214.2	5926.8	6528.3
30°	5978.1	6026.4	5814.2	5503.9	5028.3	4609.8	4608.3	5047.3	5186.4	5877.1	6436.1
32.5°	6619.0	6639.5	6493.2	6178.5	5562.4	4952.2	4731.2	5059.0	5179.0	5817.1	6319.0
35°	7268.8	7295.1	7200.0	6946.8	6292.7	5454.2	4971.2	5127.8	5224.4	5796.6	6237.1
37.5°	8110.3	8145.4	8013.7	7721.0	7181.0	6134.6	5370.7	5300.5	5363.4	5855.1	6212.2
40°	9440.5	9424.4	9039.5	8603.4	8152.7	7005.4	5941.5	5593.2	5629.8	6043.9	6288.3
42.5°	10988.8	10949.3	10286.4	9601.5	9221.0	8059.0	6696.6	6101.0	6093.7	6415.6	6556.1
45°	12223.9	12191.7	11594.7	10750.3	10445.9	9259.0	7672.7	6857.6	6803.4	7005.4	7050.7
47.5°	12892.7	12894.2	12550.3	11861.0	11853.7	10783.9	8926.8	7952.2	7858.6	7953.7	7905.4
50°	12658.6	12689.3	12652.7	12433.2	13138.6	12782.9	10564.4	9478.6	9289.8	9383.4	9197.6
52.5°	11525.9	11565.4	11782.0	12118.6	13678.6	15199.1	12970.3	11375.1	11155.6	11122.0	10915.6
55°	9518.1	9566.4	10008.3	10922.9	13229.3	16822.0	16766.4	13792.7	13443.0	13125.4	13037.6
57.5°	6560.5	6641.0	7352.2	8710.3	11776.1	17312.2	21286.9	17239.1	16527.8	15418.6	15439.1
60°	3698.1	3791.7	4630.3	5863.9	8843.4	16779.5	24725.9	22459.1	20957.6	18103.9	18256.1
62.5°	2351.7	2452.7	3089.3	4074.2	5306.4	13911.2	26135.2	29716.2	27809.3	21414.2	21563.5
65°	1903.9	1947.8	2247.8	3362.9	3853.2	8381.0	25065.4	35694.2	34983.0	25615.7	24919.1
67.5°	1858.5	1873.2	2028.3	2822.9	3695.1	4710.7	19993.2	36812.3	37601.0	29539.1	26316.6
70°	1836.6	1887.8	2285.9	2694.2	3538.5	3973.2	12014.7	33747.9	34993.2	30564.9	24456.6
72.5°	891.2	888.3	1150.2	2436.6	3986.3	4121.0	6172.7	27305.9	28555.7	26480.5	20097.1
75°	718.5	657.1	627.8	892.7	3832.7	4255.6	3933.7	18788.8	19693.2	17754.2	12354.2
77.5°	682.0	608.8	557.6	559.0	1620.0	4513.2	3332.2	10399.0	10662.5	8019.5	3384.9
80°	564.9	497.6	461.0	519.5	784.4	4298.1	3602.9	4706.3	4318.5	1969.8	1126.8
82.5°	392.2	357.1	346.8	436.1	627.8	3062.9	4189.8	2528.8	2120.5	986.3	695.1
85°	250.2	213.7	237.1	317.6	488.8	1413.7	4315.6	1971.2	1567.3	626.3	392.2
87.5°	115.6	93.7	117.1	175.6	319.0	487.3	4106.3	2214.2	1614.1	330.7	247.3
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°	6401.0	6401.0	6401.0	6401.0	6401.0	6401.0	6401.0	6401.0	6401.0	6401.0	6401.0
2.5°	6403.9	6376.1	6354.2	6313.2	6267.8	6223.9	6184.4	6134.6	6120.0	6106.8	6127.3
5°	6424.4	6396.6	6316.1	6190.3	6051.2	5921.0	5790.7	5679.5	5610.7	5572.7	5594.6
7.5°	6455.1	6415.6	6248.8	6017.6	5767.3	5539.0	5303.4	5114.6	4975.6	4909.8	4928.8
10°	6482.9	6406.8	6134.6	5787.8	5422.0	5082.4	4710.7	4403.4	4175.1	4055.1	4084.4
12.5°	6494.6	6373.2	5975.1	5501.0	4999.0	4501.5	3954.2	3494.6	3166.8	3046.8	3022.0
15°	6506.4	6335.1	5799.5	5174.6	4488.3	3784.4	3017.6	2467.3	2195.1	2135.1	2122.0
17.5°	6509.3	6269.3	5600.5	4820.5	3889.8	2931.2	2063.4	1713.7	1715.1	1811.7	1823.4
20°	6478.5	6171.2	5359.0	4380.0	3172.7	2026.8	1416.6	1356.6	1577.6	1819.0	1848.3
22.5°	6408.3	6041.0	5085.4	3866.3	2351.7	1334.6	1096.1	1162.0	1447.3	1742.9	1776.6
25°	6319.0	5882.9	4762.0	3270.7	1557.1	954.1	919.0	999.5	1192.7	1390.2	1409.3
27.5°	6197.6	5695.6	4399.0	2588.8	1011.2	785.9	809.3	863.4	942.4	1030.2	1039.0
30°	6041.0	5471.7	4011.2	1887.8	763.9	706.8	740.5	769.8	803.4	853.2	857.6
32.5°	5861.0	5256.6	3613.2	1303.9	677.6	665.9	692.2	706.8	733.2	763.9	766.8
35°	5710.3	5051.7	3200.5	922.0	641.0	635.1	652.7	658.5	683.4	717.1	720.0
37.5°	5623.9	4884.9	2774.6	743.4	616.1	607.3	617.6	617.6	652.7	702.4	709.8
40°	5629.8	4792.7	2348.8	671.7	595.6	583.9	585.4	585.4	630.7	684.9	689.3
42.5°	5789.3	4816.1	1971.2	643.9	579.5	566.3	559.0	563.4	601.5	636.6	639.5
45°	6163.9	4981.5	1617.1	626.3	563.4	559.0	542.9	541.5	556.1	572.2	572.2
47.5°	6778.5	5307.8	1377.1	614.6	550.2	548.8	529.8	510.7	509.3	515.1	515.1
50°	7778.1	5869.8	1216.1	601.5	541.5	529.8	507.8	478.5	468.3	472.7	472.7
52.5°	9276.6	6872.2	1154.6	583.9	522.4	503.4	478.5	449.3	440.5	442.0	442.0
55°	11242.0	8411.7	1145.9	563.4	502.0	471.2	450.7	428.8	418.5	421.5	421.5
57.5°	13643.4	10541.0	1302.4	531.2	474.1	439.0	427.3	412.7	405.4	409.8	408.3
60°	16563.0	13327.3	1931.7	497.6	446.3	409.8	409.8	398.0	392.2	396.6	395.1
62.5°	19925.9	16527.8	2716.1	472.7	417.1	386.3	392.2	386.3	380.5	383.4	382.0
65°	22908.3	18613.2	2543.4	453.7	387.8	364.4	374.6	371.7	367.3	370.2	368.8
67.5°	22994.7	17840.5	1428.3	433.2	360.0	342.4	357.1	355.6	352.7	355.6	354.1
70°	20521.5	15064.4	804.9	395.1	330.7	316.1	336.6	335.1	332.2	338.0	336.6
72.5°	16441.5	10931.7	588.3	348.3	301.5	288.3	311.7	310.2	310.2	319.0	314.6
75°	9461.0	5625.4	469.8	298.5	270.7	260.5	281.0	282.4	285.4	297.1	288.3
77.5°	2697.1	1753.2	383.4	253.2	232.7	228.3	248.8	251.7	253.2	266.3	254.6
80°	1002.4	807.8	316.1	212.2	190.2	191.7	210.7	215.1	216.6	229.8	215.1
82.5°	639.5	532.7	256.1	163.9	149.3	147.8	171.2	177.1	177.1	178.5	169.8
85°	373.2	319.0	193.2	118.5	105.4	101.0	127.3	137.6	133.2	130.2	124.4
87.5°	250.2	219.5	118.5	65.9	57.1	54.1	74.6	82.0	79.0	74.6	70.2
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)