

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: P194578

Luminaire Tested: **GLEON-AF-10-LED-E1-SL4-7060-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194578
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-10-LED-E1-SL4-7060-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5700K, 615mA 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: 36886 lumens
Efficiency: N/A
Efficacy: 114.2 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): 323
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

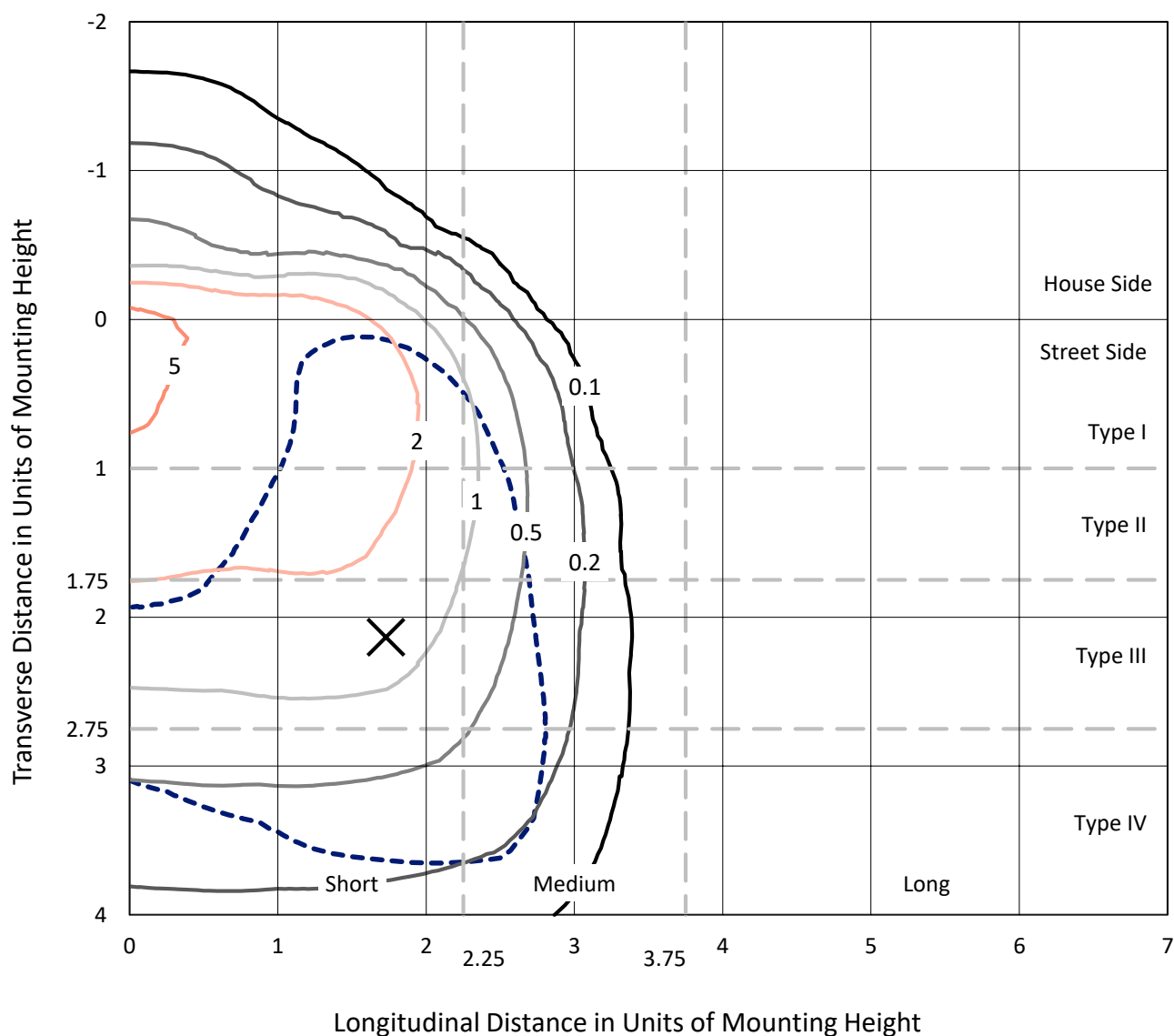


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

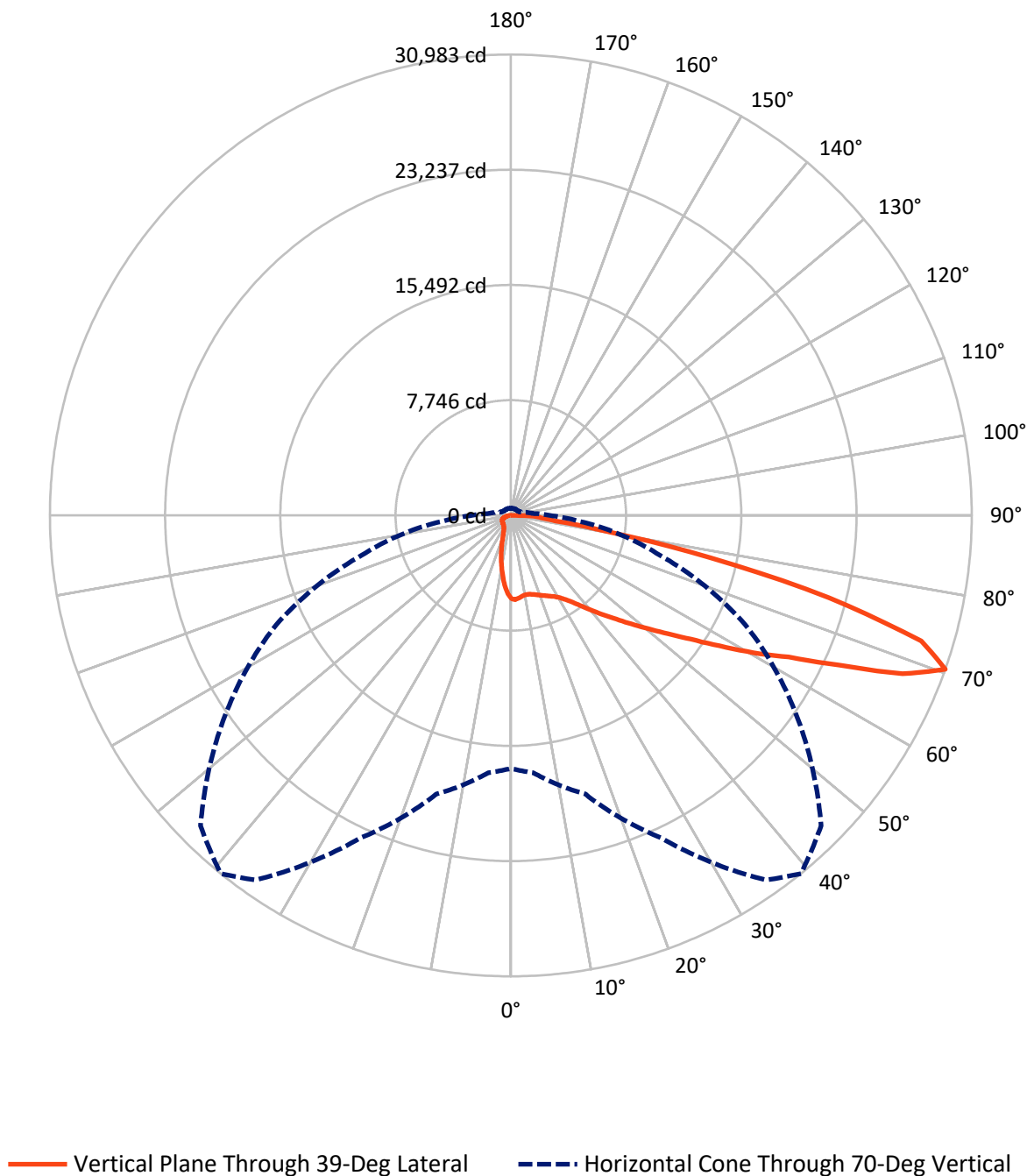


Based on 30 foot mounting height. Maximum calculated value = 6.2 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4195.2	0.0	4195.2
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	32690.8	0.0	32690.8
	% Fixture	88.6	0.0	88.6
Total	Lumens	36886.0	0.0	36886.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	480.6	1.3
10°-20°	1201.2	3.3
20°-30°	1870.4	5.1
30°-40°	2913.7	7.9
40°-50°	4891.6	13.3
50°-60°	7770.8	21.1
60°-70°	10365.4	28.1
70°-80°	6259.4	17.0
80°-90°	1132.9	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°	36886.0	100.0
0°-180°	36886.0	100.0

Coefficient of Utilization



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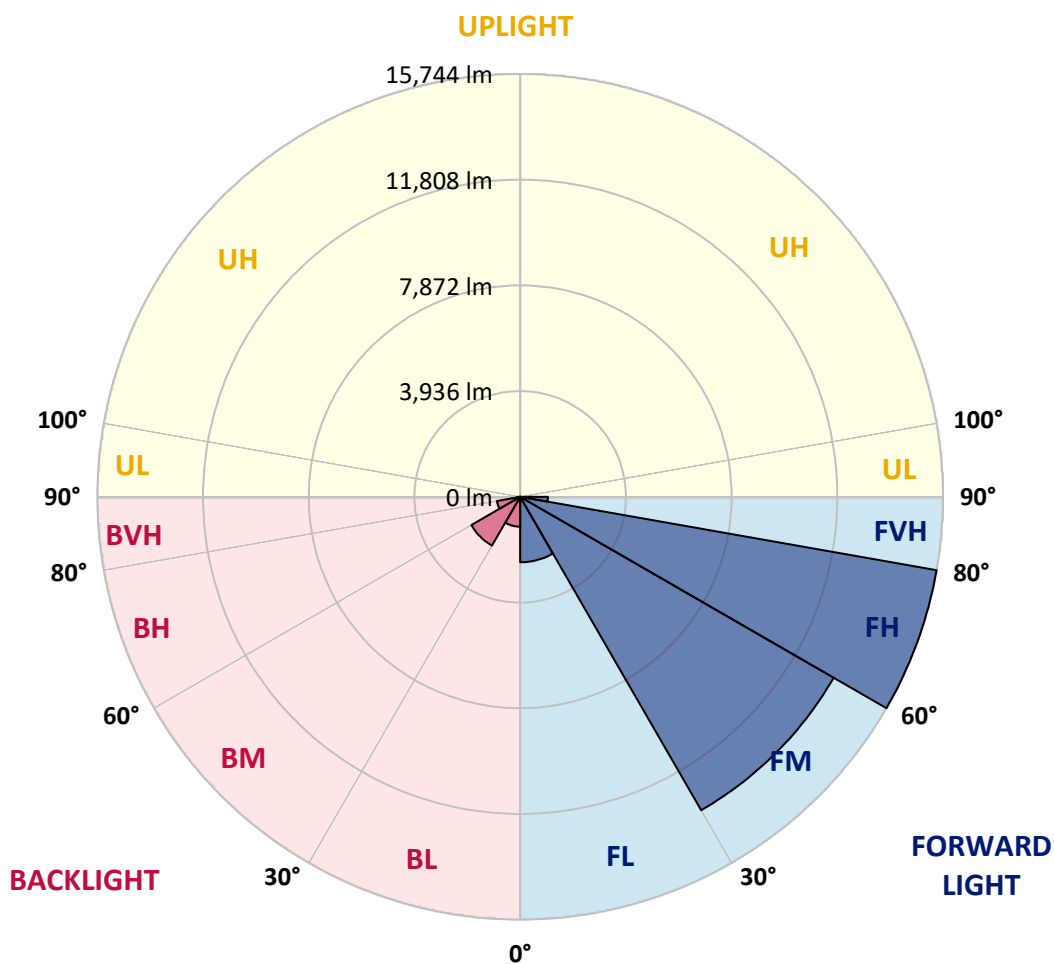
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2439.3	6.6			
FM	(30°-60°)	13476.7	36.5			
FH	(60°-80°)	15744.0	42.7			G5
FVH	(80°-90°)	1030.8	2.8			G5
BL	(0°-30°)	1112.9	3.0	B3/2500		
BM	(30°-60°)	2099.4	5.7	B2/2500		
BH	(60°-80°)	880.7	2.4	B2/1000		G2/1000
BVH	(80°-90°)	102.1	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°	5599.9	5599.9	5599.9	5599.9	5599.9	5599.9	5599.9	5599.9	5599.9	5599.9	5599.9
2.5°	5708.6	5706.8	5691.8	5680.5	5671.1	5667.4	5674.9	5646.8	5622.4	5592.4	5560.5
5°	5665.5	5663.6	5639.2	5616.7	5594.2	5586.7	5584.9	5534.2	5504.2	5459.2	5399.2
7.5°	5618.6	5609.2	5577.4	5539.9	5500.5	5481.7	5463.0	5397.3	5363.6	5318.6	5249.2
10°	5569.9	5558.6	5528.6	5491.1	5453.6	5425.5	5393.6	5329.8	5294.2	5260.4	5179.8
12.5°	5519.2	5509.8	5502.3	5485.5	5459.2	5434.8	5410.5	5356.1	5318.6	5279.2	5185.4
15°	5511.7	5508.0	5524.9	5536.1	5521.1	5506.1	5479.8	5433.0	5393.6	5354.2	5232.3
17.5°	5571.7	5569.9	5613.0	5643.0	5635.5	5609.2	5573.6	5521.1	5489.2	5455.5	5303.6
20°	5703.0	5712.4	5764.9	5804.3	5766.8	5729.3	5671.1	5598.0	5581.1	5566.1	5376.7
22.5°	5950.6	5959.9	5997.4	6012.4	5914.9	5860.5	5779.9	5686.1	5674.9	5686.1	5464.8
25°	6336.9	6327.5	6321.9	6265.6	6087.5	6003.1	5899.9	5802.4	5808.0	5858.7	5588.6
27.5°	6848.9	6798.2	6719.5	6550.7	6267.5	6173.7	6048.1	5958.1	5993.7	6091.2	5774.3
30°	7379.6	7323.3	7141.4	6865.7	6503.8	6400.7	6260.0	6158.7	6252.5	6406.3	6021.8
32.5°	7870.9	7863.4	7597.1	7242.7	6830.1	6740.1	6599.4	6485.0	6636.9	6871.4	6393.1
35°	8407.3	8424.2	8105.4	7679.7	7270.8	7177.1	7075.8	6989.5	7192.1	7514.6	6931.4
37.5°	8981.2	9014.9	8638.0	8157.9	7773.4	7734.0	7674.0	7636.5	7949.7	8396.0	7683.4
40°	9748.2	9714.4	9191.2	8698.0	8390.4	8388.5	8369.8	8414.8	8936.2	9547.5	8649.2
42.5°	10569.6	10470.2	9778.2	9277.5	9067.4	9131.2	9168.7	9352.5	10123.3	10946.6	9827.0
45°	11454.8	11231.6	10387.7	9890.7	9819.5	9954.5	10082.0	10481.5	11520.4	12538.7	11117.2
47.5°	12161.8	11946.1	11017.8	10534.0	10689.6	10894.0	11139.7	11771.7	13084.5	14183.5	12390.6
50°	12718.8	12578.1	11653.6	11284.1	11647.9	11963.0	12364.3	13232.6	14712.3	15785.0	13570.2
52.5°	13258.9	13153.9	12295.0	12053.0	12773.2	13208.3	13754.0	14800.5	16381.4	17360.3	14562.3
55°	13746.5	13671.5	12985.1	13011.3	14097.2	14663.5	15349.9	16585.8	18200.5	18765.0	15402.4
57.5°	14296.0	14200.3	13772.7	14213.5	15798.1	16533.3	17426.0	18592.5	19907.1	20014.0	16041.9
60°	14849.2	14766.7	14646.7	15601.2	17958.6	18731.2	19577.0	20537.2	21638.1	20983.6	16004.4
62.5°	15329.3	15338.7	15550.6	17058.4	20074.0	20968.6	22000.0	22949.0	23204.0	21152.3	14821.1
65°	16143.2	16291.4	16923.4	19121.3	23052.1	24248.6	25514.5	25362.6	23637.2	19575.2	12283.7
67.5°	17110.9	17371.6	18652.5	21870.6	26816.0	28404.4	28893.9	25908.3	21902.5	15912.5	8756.1
70°	17013.4	17371.6	19398.9	23920.4	29917.8	30983.1	29497.8	23447.8	17392.2	10395.2	4650.9
72.5°	15108.0	15620.0	17877.9	22980.8	28940.8	28847.0	25608.2	17480.4	10333.3	4174.6	1817.2
75°	11514.8	12032.4	13975.3	18155.5	22873.9	22086.3	18170.5	9656.3	3921.4	1657.8	1145.9
77.5°	6623.8	7025.2	8525.4	11134.1	14511.6	13703.4	10113.9	4294.6	1909.1	1155.2	894.6
80°	3698.2	3921.4	4832.8	5648.6	7111.4	6518.8	4525.3	2668.7	1425.3	838.3	690.1
82.5°	2923.7	3122.5	3908.3	3563.2	3248.1	2996.8	2599.3	2376.1	1138.4	528.9	412.6
85°	2554.3	2743.7	3308.2	2805.6	2218.6	2034.8	2111.7	2338.6	885.2	318.8	352.6
87.5°	2366.7	2619.9	2948.1	2162.3	1727.2	1530.3	1948.5	2563.6	285.1	198.8	142.5
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°	5599.9	5599.9	5599.9	5599.9	5599.9	5599.9	5599.9	5599.9	5599.9	5599.9	5599.9
2.5°	5532.4	5502.3	5453.6	5410.5	5342.9	5307.3	5267.9	5239.8	5217.3	5198.5	5228.5
5°	5361.7	5305.4	5202.3	5091.6	4960.4	4857.2	4771.0	4690.3	4634.0	4596.5	4622.8
7.5°	5200.4	5108.5	4947.2	4746.6	4521.5	4330.2	4172.7	4033.9	3938.3	3876.4	3900.8
10°	5108.5	4994.1	4744.7	4429.6	4097.7	3799.5	3552.0	3338.2	3190.0	3105.6	3118.7
12.5°	5086.0	4937.9	4592.8	4159.6	3705.7	3291.3	2942.5	2646.2	2438.0	2329.2	2333.0
15°	5102.9	4913.5	4450.3	3900.8	3326.9	2803.7	2368.6	2008.5	1766.6	1642.8	1641.0
17.5°	5131.0	4894.7	4300.2	3621.3	2942.5	2334.8	1849.1	1496.5	1282.8	1183.4	1175.9
20°	5161.0	4864.7	4131.4	3319.4	2543.0	1899.8	1447.8	1172.1	1037.1	982.7	978.9
22.5°	5204.2	4838.5	3957.0	3000.6	2151.1	1547.2	1190.9	1005.2	933.9	905.8	902.1
25°	5273.6	4825.3	3771.4	2668.7	1798.5	1294.0	1037.1	922.7	881.4	862.7	860.8
27.5°	5389.8	4844.1	3597.0	2346.1	1511.6	1123.3	950.8	881.4	851.4	834.5	832.7
30°	5539.9	4902.2	3413.2	2040.4	1288.4	1007.1	898.3	853.3	828.9	812.0	812.0
32.5°	5789.3	4999.7	3220.0	1776.0	1129.0	926.4	858.9	828.9	808.3	795.2	793.3
35°	6156.9	5183.5	3040.0	1556.6	1014.6	868.3	825.2	802.7	787.7	780.2	780.2
37.5°	6691.3	5474.2	2880.6	1399.0	945.2	828.9	793.3	776.4	767.0	767.0	767.0
40°	7409.6	5875.5	2751.2	1294.0	905.8	800.8	768.9	755.8	750.1	752.0	752.0
42.5°	8296.7	6396.9	2664.9	1220.9	887.1	783.9	752.0	740.8	735.1	733.3	735.1
45°	9307.5	6989.5	2655.5	1166.5	868.3	772.7	740.8	729.5	718.3	710.8	710.8
47.5°	10290.2	7591.5	2732.4	1147.7	847.7	759.5	731.4	720.1	703.3	686.4	686.4
50°	11158.5	8103.5	2835.6	1155.2	840.2	740.8	716.4	710.8	684.5	665.8	663.9
52.5°	11848.6	8497.3	2920.0	1177.7	847.7	727.6	697.6	699.5	671.4	650.8	648.9
55°	12401.8	8756.1	2897.5	1200.2	864.5	720.1	680.8	684.5	662.0	641.4	641.4
57.5°	12643.8	8660.5	2648.0	1181.5	877.7	722.0	667.6	682.6	663.9	645.1	645.1
60°	12124.3	7810.9	2181.1	1099.0	860.8	716.4	662.0	690.1	688.3	669.5	667.6
62.5°	10552.7	6290.0	1691.6	977.1	802.7	688.3	647.0	688.3	708.9	703.3	701.4
65°	8133.5	4480.3	1292.1	845.8	723.9	641.4	607.6	645.1	673.3	680.8	678.9
67.5°	5279.2	2745.5	995.8	722.0	635.8	587.0	557.0	573.9	579.5	579.5	575.7
70°	2595.5	1477.8	793.3	607.6	545.7	528.9	512.0	502.6	493.2	485.7	485.7
72.5°	1280.9	965.8	652.6	513.9	470.7	463.2	459.5	448.2	440.7	431.3	427.6
75°	947.1	785.8	555.1	433.2	405.1	397.6	405.1	395.7	393.8	386.3	382.6
77.5°	778.3	669.5	478.2	371.3	346.9	333.8	345.1	346.9	348.8	337.6	333.8
80°	632.0	566.4	399.5	307.6	285.1	275.7	283.2	298.2	301.9	285.1	277.6
82.5°	455.7	463.2	322.6	240.0	221.3	213.8	228.8	247.5	251.3	226.9	221.3
85°	382.6	386.3	247.5	170.7	151.9	140.7	165.0	183.8	196.9	172.5	166.9
87.5°	159.4	226.9	142.5	95.6	84.4	73.1	88.1	97.5	118.1	108.8	106.9
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)