

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: P269566

Luminaire Tested: **GLEON-AF-08-LED-E1-SL4-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269566
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-08-LED-E1-SL4-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1200mA 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: 43202.9 lumens
Efficiency: N/A
Efficacy: 84.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 511
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

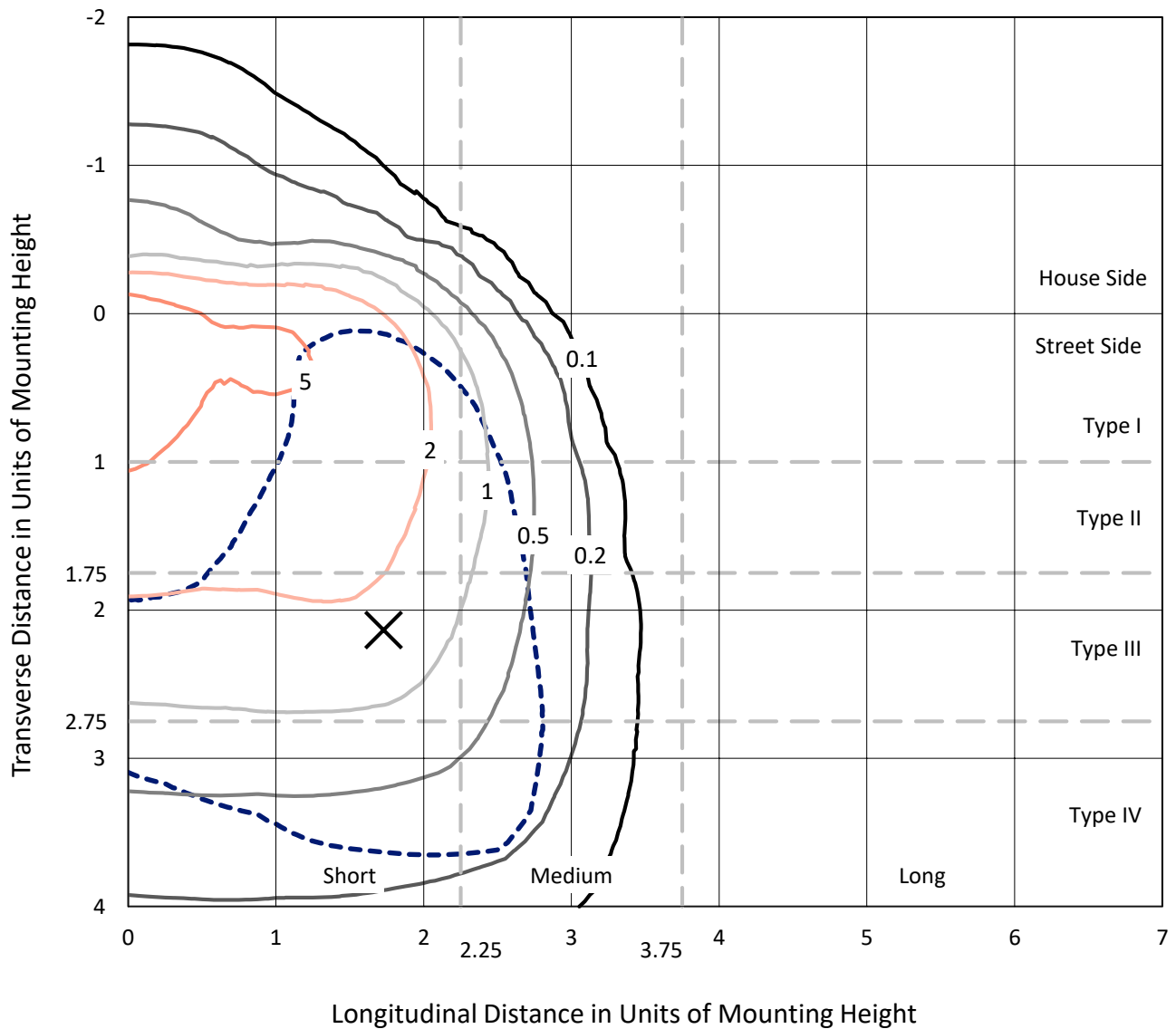


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

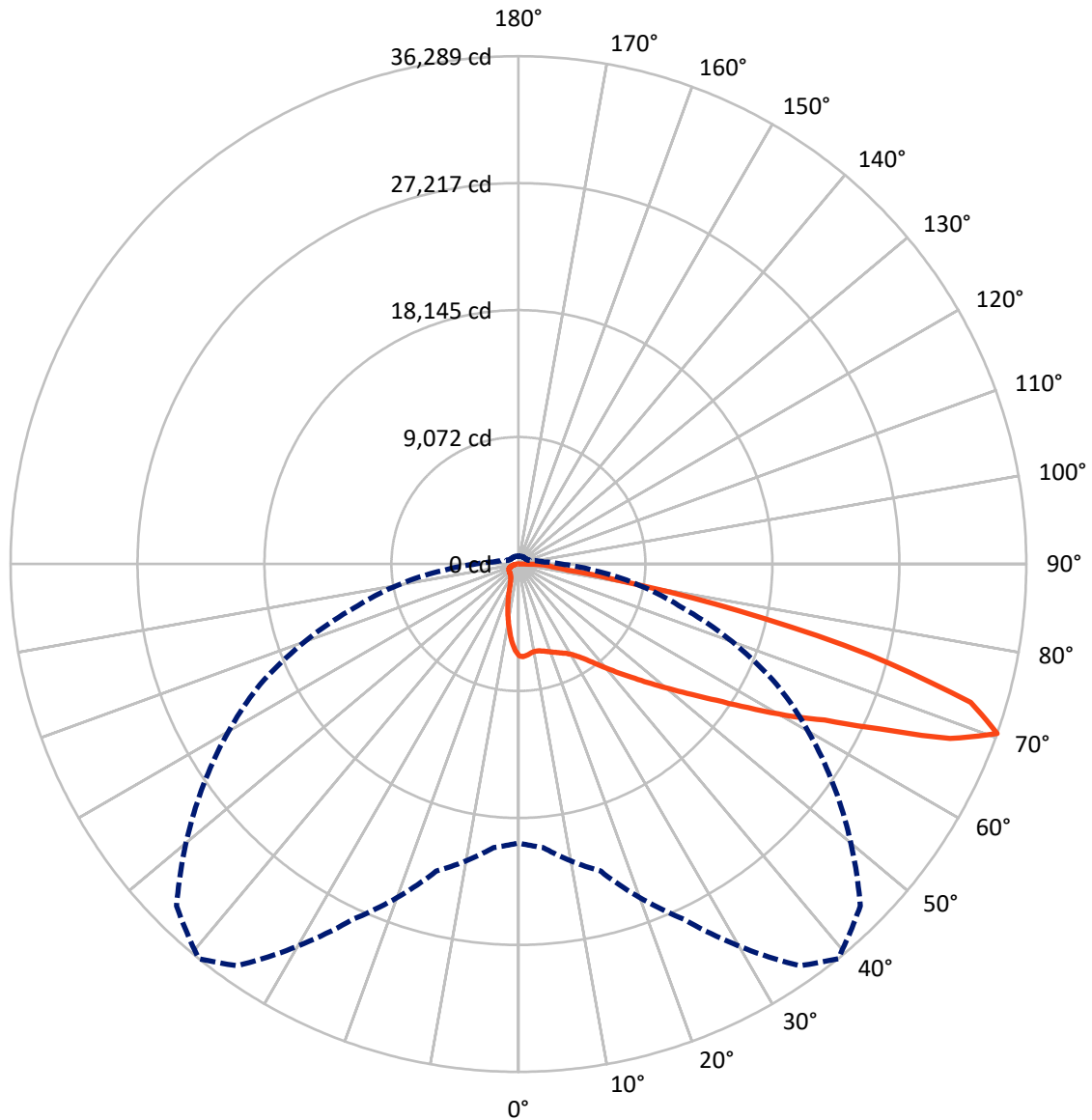


Based on 30 foot mounting height. Maximum calculated value = 7.3 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4913.6	0.0	4913.6
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	38289.2	0.0	38289.2
	% Fixture	88.6	0.0	88.6
Total	Lumens	43202.9	0.0	43202.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	562.9	1.3
10°-20°	1407.0	3.3
20°-30°	2190.7	5.1
30°-40°	3412.7	7.9
40°-50°	5729.4	13.3
50°-60°	9101.6	21.1
60°-70°	12140.5	28.1
70°-80°	7331.3	17.0
80°-90°	1326.9	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°	43202.9	100.0
0°-180°	43202.9	100.0



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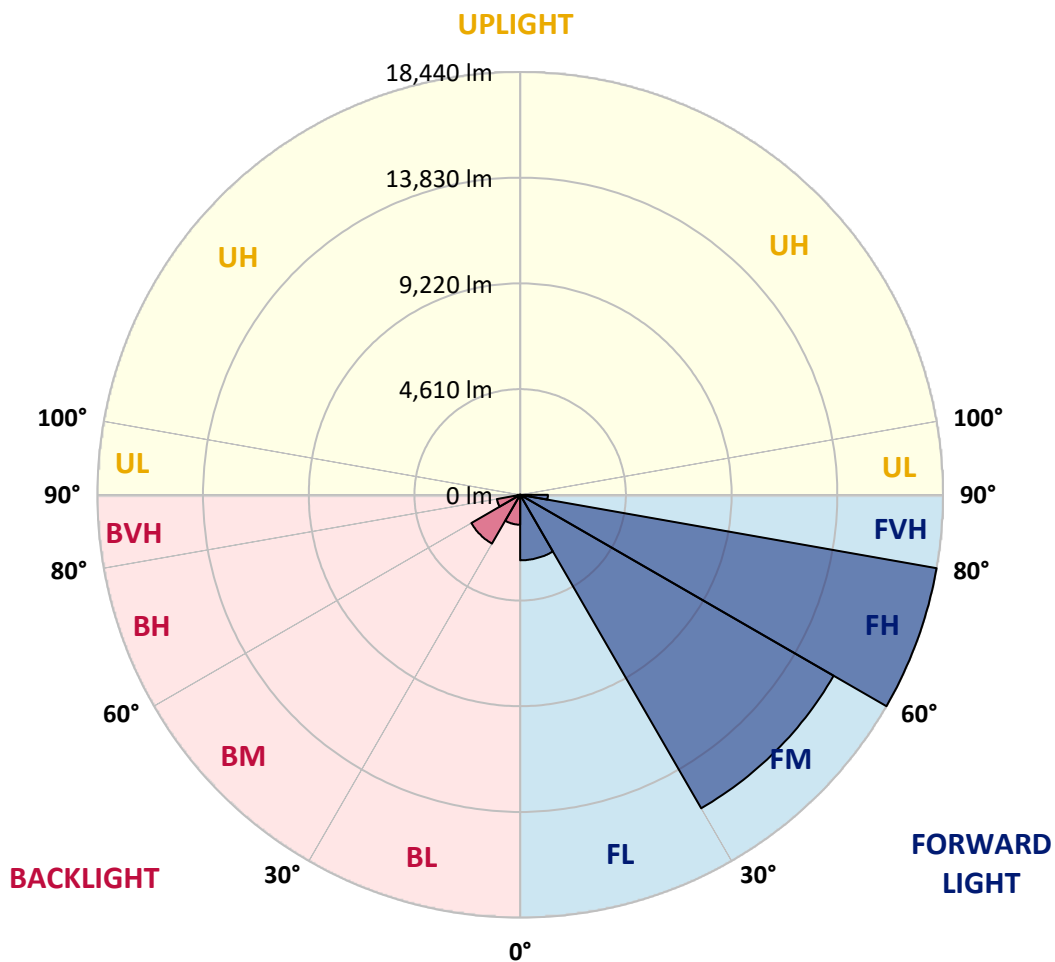
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2857.1	6.6			
FM	(30°-60°)	15784.7	36.5			
FH	(60°-80°)	18440.2	42.7			G5
FVH	(80°-90°)	1207.3	2.8			G5
BL	(0°-30°)	1303.5	3.0	B3/2500		
BM	(30°-60°)	2459.0	5.7	B2/2500		
BH	(60°-80°)	1031.6	2.4	B3/2500		G3/2500
BVH	(80°-90°)	119.6	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°	6558.9	6558.9	6558.9	6558.9	6558.9	6558.9	6558.9	6558.9	6558.9	6558.9	6558.9
2.5°	6686.3	6684.1	6666.5	6653.2	6642.3	6637.9	6646.6	6613.9	6585.2	6550.1	6512.7
5°	6635.7	6633.5	6605.0	6578.6	6552.2	6543.4	6541.3	6482.0	6446.9	6394.1	6323.9
7.5°	6580.9	6569.8	6532.6	6488.5	6442.5	6420.5	6398.4	6321.6	6282.0	6229.3	6148.1
10°	6523.8	6510.6	6475.4	6431.4	6387.6	6354.6	6317.2	6242.5	6200.8	6161.2	6066.9
12.5°	6464.5	6453.5	6444.6	6424.9	6394.1	6365.6	6337.1	6273.4	6229.3	6183.3	6073.4
15°	6455.6	6451.3	6471.0	6484.1	6466.5	6449.0	6418.3	6363.4	6317.2	6271.1	6128.3
17.5°	6525.8	6523.8	6574.2	6609.4	6600.6	6569.8	6528.2	6466.5	6429.3	6389.7	6211.8
20°	6679.6	6690.7	6752.2	6798.4	6754.4	6710.3	6642.3	6556.6	6536.8	6519.3	6297.5
22.5°	6969.6	6980.5	7024.6	7042.2	6927.9	6864.2	6769.7	6659.9	6646.6	6659.9	6400.8
25°	7422.1	7411.1	7404.5	7338.7	7129.9	7031.2	6910.3	6796.0	6802.7	6862.1	6545.7
27.5°	8021.8	7962.4	7870.2	7672.6	7340.8	7230.9	7083.9	6978.5	7020.2	7134.3	6763.1
30°	8643.4	8577.5	8364.4	8041.5	7617.5	7496.7	7332.1	7213.4	7323.3	7503.4	7053.1
32.5°	9218.9	9210.1	8898.3	8483.1	7999.8	7894.3	7729.6	7595.6	7773.6	8048.2	7488.0
35°	9847.1	9866.9	9493.5	8994.8	8516.0	8406.2	8287.6	8186.6	8423.8	8801.6	8118.4
37.5°	10519.2	10558.8	10117.3	9554.9	9104.6	9058.5	8988.3	8944.3	9311.1	9833.8	8999.2
40°	11417.5	11378.0	10765.3	10187.6	9827.3	9825.1	9803.2	9855.8	10466.5	11182.6	10130.5
42.5°	12379.7	12263.3	11452.8	10866.3	10620.2	10695.0	10738.9	10954.1	11856.9	12821.1	11509.9
45°	13416.5	13155.0	12166.6	11584.5	11501.1	11659.2	11808.6	12276.4	13493.4	14686.0	13021.1
47.5°	14244.6	13991.9	12904.6	12338.0	12520.2	12759.6	13047.4	13787.6	15325.3	16612.4	14512.5
50°	14897.0	14732.2	13649.2	13216.6	13642.6	14011.8	14481.8	15498.7	17231.8	18488.2	15894.2
52.5°	15529.4	15406.6	14400.5	14117.1	14960.6	15470.3	16109.5	17335.1	19186.8	20333.3	17056.1
55°	16100.6	16012.7	15208.8	15239.6	16511.3	17174.8	17978.7	19426.1	21317.4	21978.6	18040.1
57.5°	16744.1	16632.2	16131.4	16647.6	18503.6	19364.8	20410.2	21776.5	23316.2	23441.5	18789.2
60°	17392.2	17295.5	17154.9	18273.1	21034.1	21939.0	22929.6	24054.3	25343.6	24577.1	18745.2
62.5°	17954.6	17965.6	18213.7	19979.7	23511.8	24559.5	25767.6	26879.1	27177.9	24774.7	17359.2
65°	18907.9	19081.3	19821.6	22396.0	26999.8	28401.3	29883.8	29706.1	27685.1	22927.5	14387.3
67.5°	20041.1	20346.5	21846.8	25616.0	31408.2	33268.8	33842.0	30345.1	25653.3	18637.7	10255.6
70°	19927.0	20346.5	22721.0	28016.9	35041.4	36289.0	34549.4	27463.3	20370.7	12175.4	5447.4
72.5°	17695.4	18295.1	20939.6	26916.4	33897.0	33787.1	29993.7	20473.9	12103.0	4889.5	2128.4
75°	13486.8	14093.0	16368.6	21264.7	26791.2	25868.6	21282.3	11310.0	4592.9	1941.7	1342.1
77.5°	7758.2	8228.3	9985.5	13040.9	16996.8	16050.0	11845.9	5030.1	2236.2	1353.0	1047.8
80°	4331.5	4592.9	5660.5	6615.9	8329.3	7635.1	5300.3	3125.7	1669.4	981.8	808.4
82.5°	3424.3	3657.2	4577.7	4173.4	3804.4	3510.0	3044.4	2782.9	1333.4	619.4	483.3
85°	2991.6	3213.5	3874.7	3286.0	2598.4	2383.3	2473.4	2739.1	1036.7	373.4	413.0
87.5°	2772.0	3068.6	3452.9	2532.6	2023.1	1792.4	2282.2	3002.7	333.9	232.8	166.9
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°	6558.9	6558.9	6558.9	6558.9	6558.9	6558.9	6558.9	6558.9	6558.9	6558.9	6558.9
2.5°	6479.7	6444.6	6387.6	6337.1	6258.0	6216.2	6170.1	6137.1	6110.8	6088.8	6123.9
5°	6280.0	6214.0	6093.3	5963.6	5809.9	5689.1	5587.9	5493.6	5427.6	5383.7	5414.4
7.5°	6091.0	5983.4	5794.4	5559.4	5295.9	5071.8	4887.3	4724.7	4612.7	4540.3	4568.8
10°	5983.4	5849.4	5557.3	5188.3	4799.5	4450.3	4160.2	3909.9	3736.3	3637.4	3652.9
12.5°	5957.0	5783.5	5379.3	4871.9	4340.4	3854.9	3446.3	3099.3	2855.5	2728.2	2732.5
15°	5976.8	5754.9	5212.3	4568.8	3896.7	3283.8	2774.2	2352.5	2069.2	1924.2	1922.0
17.5°	6009.8	5733.0	5036.6	4241.4	3446.3	2734.7	2165.9	1752.9	1502.4	1386.1	1377.2
20°	6044.9	5697.8	4839.0	3887.9	2978.5	2225.1	1695.7	1372.8	1214.7	1151.0	1146.5
22.5°	6095.4	5667.0	4634.6	3514.4	2519.4	1812.2	1394.8	1177.4	1093.9	1060.9	1056.5
25°	6176.7	5651.6	4417.2	3125.7	2106.4	1515.6	1214.7	1080.8	1032.4	1010.5	1008.2
27.5°	6312.8	5673.6	4213.0	2747.8	1770.4	1315.7	1113.7	1032.4	997.2	977.4	975.3
30°	6488.5	5741.7	3997.6	2389.9	1509.1	1179.6	1052.2	999.5	970.9	951.0	951.0
32.5°	6780.8	5856.1	3771.4	2080.1	1322.3	1085.2	1006.0	970.9	946.8	931.4	929.1
35°	7211.2	6071.3	3560.6	1823.1	1188.3	1017.1	966.4	940.2	922.6	913.8	913.8
37.5°	7837.3	6411.7	3373.9	1638.6	1107.0	970.9	929.1	909.4	898.3	898.3	898.3
40°	8678.5	6881.7	3222.3	1515.6	1060.9	937.9	900.6	885.2	878.6	880.8	880.8
42.5°	9717.4	7492.5	3121.3	1429.9	1039.0	918.2	880.8	867.7	861.0	858.9	861.0
45°	10901.4	8186.6	3110.3	1366.2	1017.1	905.0	867.7	854.5	841.3	832.5	832.5
47.5°	12052.4	8891.7	3200.3	1344.3	992.8	889.6	856.7	843.5	823.7	804.0	804.0
50°	13069.4	9491.2	3321.2	1353.0	984.1	867.7	839.0	832.5	801.7	779.8	777.6
52.5°	13877.7	9952.5	3419.9	1379.4	992.8	852.2	817.1	819.3	786.3	762.2	760.0
55°	14525.8	10255.6	3393.6	1405.8	1012.6	843.5	797.3	801.7	775.3	751.3	751.3
57.5°	14809.1	10143.7	3101.5	1383.7	1028.0	845.7	782.0	799.5	777.6	755.7	755.7
60°	14200.6	9148.6	2554.6	1287.2	1008.2	839.0	775.3	808.4	806.0	784.2	782.0
62.5°	12359.9	7367.2	1981.3	1144.4	940.2	806.0	757.8	806.0	830.4	823.7	821.5
65°	9526.3	5247.4	1513.5	990.7	847.9	751.3	711.6	755.7	788.5	797.3	795.1
67.5°	6183.3	3215.8	1166.4	845.7	744.7	687.6	652.3	672.1	678.7	678.7	674.4
70°	3040.0	1730.9	929.1	711.6	639.2	619.4	599.7	588.7	577.7	568.8	568.8
72.5°	1500.2	1131.2	764.4	601.9	551.3	542.5	538.2	525.0	516.2	505.1	500.9
75°	1109.2	920.4	650.2	507.5	474.5	465.7	474.5	463.4	461.3	452.4	448.1
77.5°	911.6	784.2	560.2	434.9	406.4	391.0	404.1	406.4	408.5	395.3	391.0
80°	740.3	663.4	467.8	360.2	333.9	322.9	331.7	349.3	353.7	333.9	325.0
82.5°	533.8	542.5	377.7	281.2	259.3	250.4	268.0	290.0	294.4	265.8	259.3
85°	448.1	452.4	290.0	200.0	178.0	164.7	193.2	215.2	230.7	202.1	195.6
87.5°	186.7	265.8	166.9	112.0	98.9	85.7	103.2	114.3	138.3	127.4	125.3
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)