

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: P269553

Luminaire Tested: **GLEON-AF-08-LED-E1-SL3-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269553
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
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-SL3-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41448.9 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G5

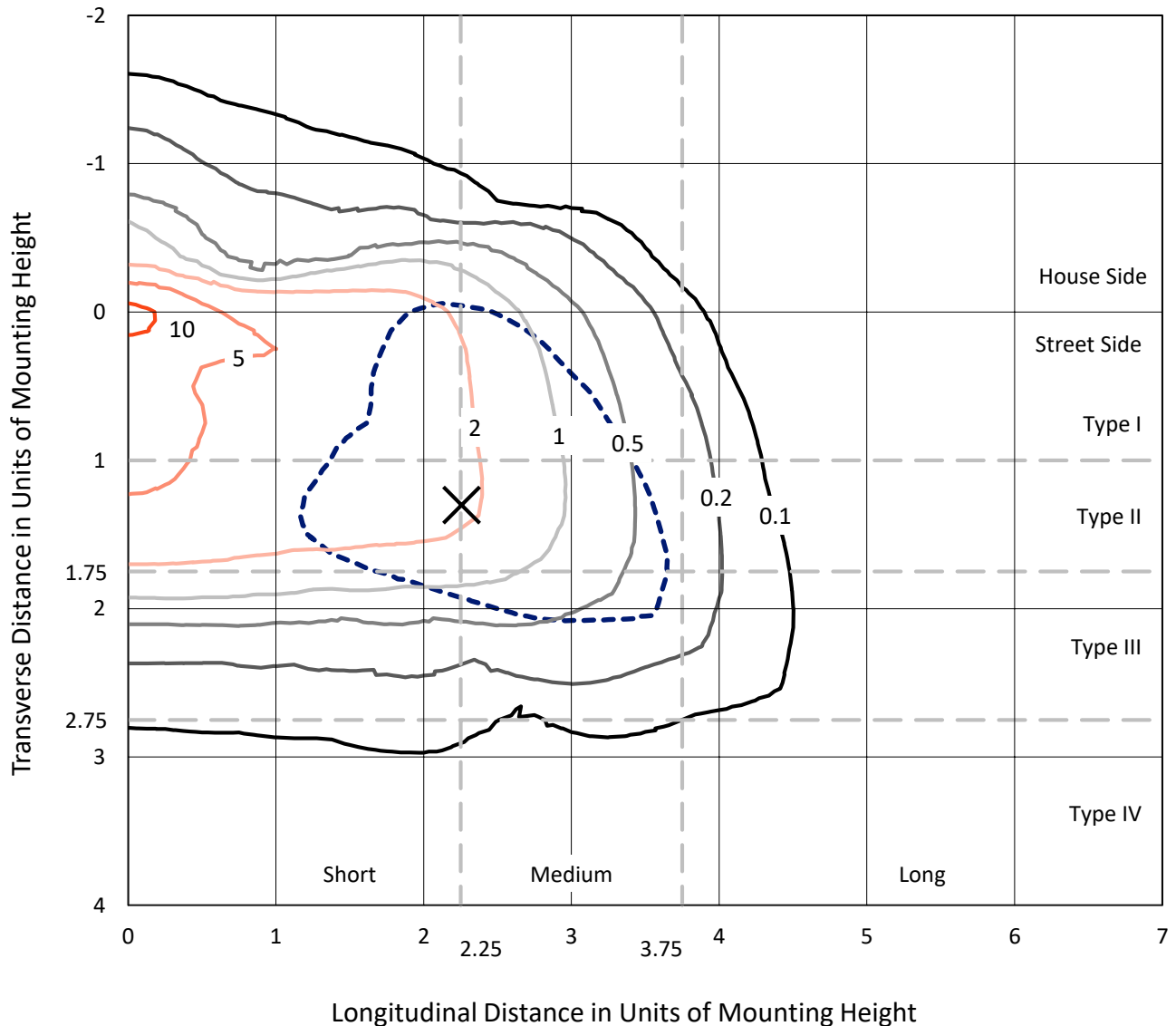
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

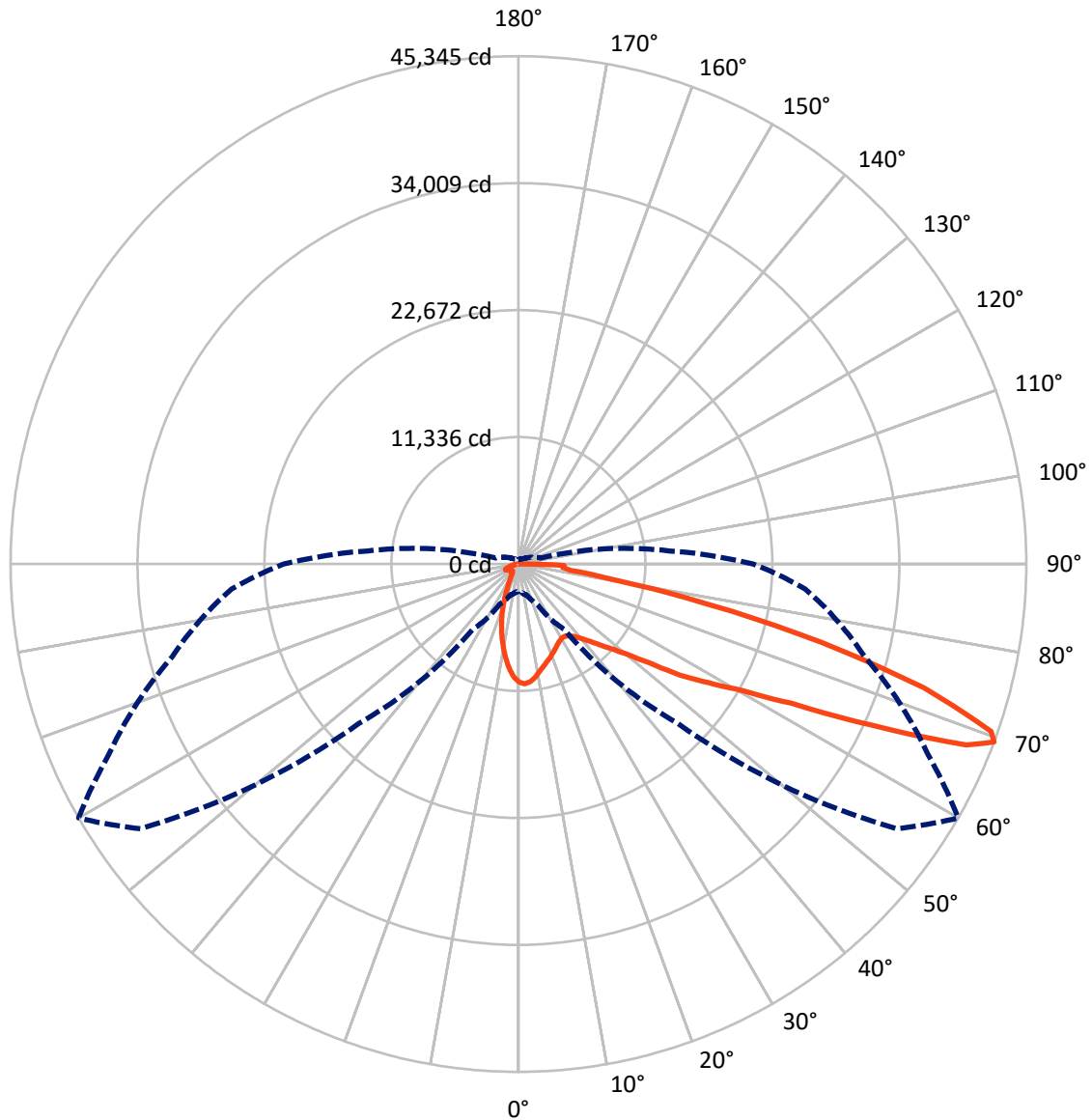
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.7 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5896.9	0.0	5896.9
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	35552.1	0.0	35552.1
	% Fixture	85.8	0.0	85.8
Total	Lumens	41448.9	0.0	41448.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	893.0	2.2
10°-20°	1902.7	4.6
20°-30°	2424.4	5.8
30°-40°	3332.9	8.0
40°-50°	5407.9	13.0
50°-60°	8672.9	20.9
60°-70°	11543.0	27.8
70°-80°	6232.3	15.0
80°-90°	1039.9	2.5
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°	41448.9	100.0
0°-180°	41448.9	100.0

Coefficient of Utilization



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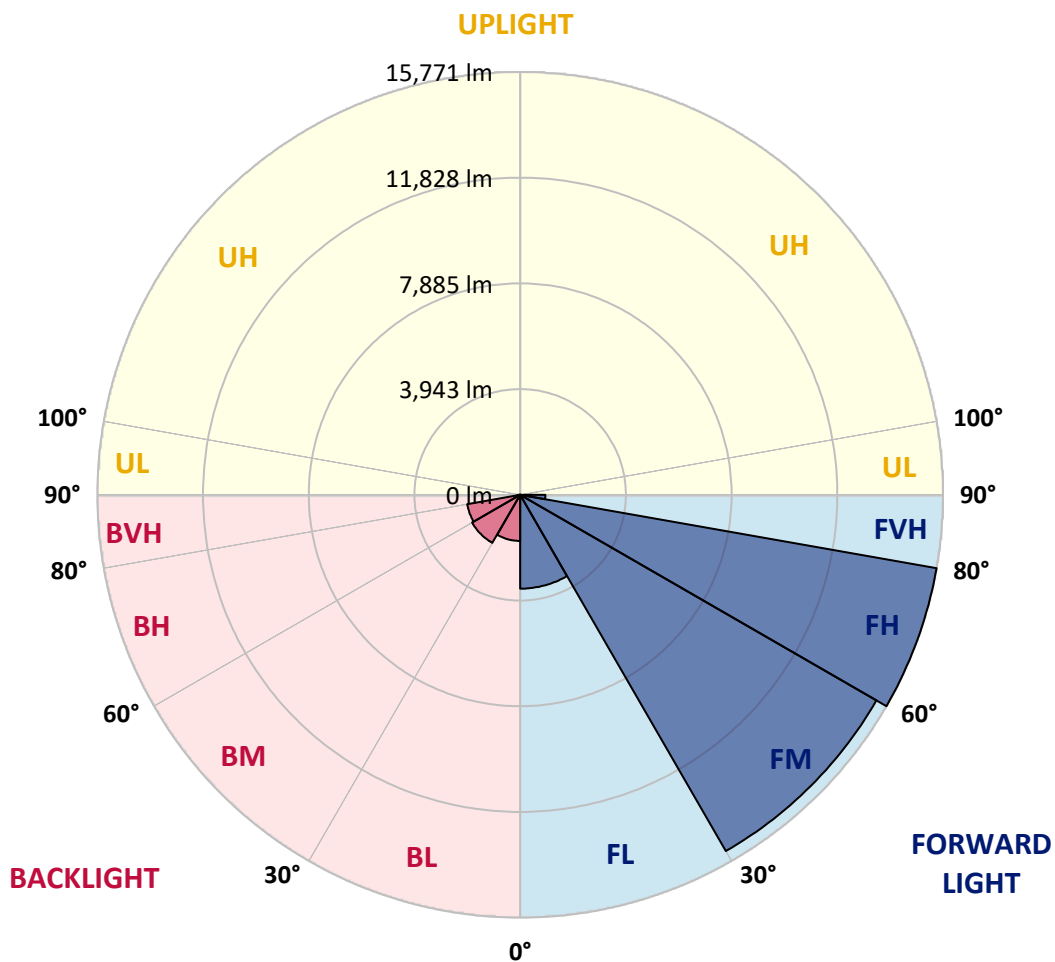
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3499.8	8.4			
FM	(30°-60°)	15342.0	37.0			
FH	(60°-80°)	15770.5	38.0			G5
FVH	(80°-90°)	939.8	2.3			G5
BL	(0°-30°)	1720.3	4.2	B3/2500		
BM	(30°-60°)	2071.7	5.0	B2/2500		
BH	(60°-80°)	2004.8	4.8	B3/2500		G3/2500
BVH	(80°-90°)	100.1	0.2			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	10561.8	10561.8	10561.8	10561.8	10561.8	10561.8	10561.8	10561.8	10561.8	10561.8	10561.8
2.5°	10778.0	10802.1	10792.1	10786.0	10804.0	10776.1	10717.9	10700.0	10672.0	10605.8	10493.7
5°	10373.5	10445.8	10441.7	10495.7	10585.8	10609.9	10583.8	10587.9	10535.9	10453.7	10267.4
7.5°	9674.8	9704.8	9720.9	9839.0	10003.2	10135.3	10247.4	10283.4	10259.5	10189.5	9949.2
10°	8954.0	8978.0	9016.1	9154.3	9362.5	9544.8	9756.9	9879.1	9931.1	9919.2	9650.9
12.5°	8335.4	8359.4	8409.5	8565.6	8813.9	9038.0	9346.4	9498.7	9622.7	9696.8	9408.5
15°	7780.7	7832.9	7880.8	8061.0	8339.3	8633.7	8982.1	9174.3	9366.4	9532.6	9194.3
17.5°	7348.2	7400.2	7428.4	7592.6	7888.8	8249.2	8657.7	8884.0	9124.3	9396.5	8982.1
20°	7098.0	7121.9	7109.9	7202.0	7468.4	7850.7	8335.4	8597.6	8887.9	9268.4	8769.9
22.5°	7027.9	7029.9	6985.8	6975.8	7148.1	7470.3	7991.0	8309.3	8665.7	9184.4	8587.5
25°	7198.1	7192.0	7071.8	6973.8	6991.8	7180.1	7658.6	8029.1	8479.6	9166.2	8447.4
27.5°	7576.5	7594.5	7416.2	7232.1	7049.9	7043.9	7406.3	7796.7	8327.3	9248.3	8387.4
30°	8107.1	8137.0	7946.9	7712.7	7370.2	7087.9	7308.3	7658.6	8233.2	9418.5	8377.4
32.5°	8687.7	8719.8	8575.6	8329.4	7880.8	7360.3	7376.3	7670.5	8229.3	9656.8	8445.4
35°	9306.4	9342.5	9268.4	9060.1	8561.6	7862.9	7636.5	7864.8	8359.4	10021.2	8627.6
37.5°	9997.1	10053.2	10073.2	9875.1	9342.5	8525.5	8063.0	8233.2	8653.7	10527.7	8962.0
40°	10992.3	11070.4	11064.3	10780.1	10237.4	9420.5	8721.7	8765.8	9112.1	11204.5	9496.6
42.5°	12898.5	12914.5	12416.0	11797.3	11222.5	10361.6	9498.7	9462.6	9745.0	12061.5	10283.4
45°	15323.2	15257.1	14147.9	12952.5	12251.8	11442.8	10509.8	10333.6	10547.8	13106.7	11268.6
47.5°	17335.4	17183.1	15781.7	14131.9	13340.9	12618.1	11697.1	11388.7	11506.8	14292.0	12542.0
50°	18034.3	17920.1	16758.8	15112.9	14372.2	14051.7	13158.7	12722.2	12754.2	15705.5	14033.7
52.5°	17883.9	17867.9	17093.0	15759.7	15337.1	15557.3	15229.1	14638.4	14326.0	17275.3	15643.5
55°	17529.6	17563.7	17283.3	16512.5	16440.4	17011.1	17934.0	17497.5	16526.5	18859.0	17307.4
57.5°	16298.3	16386.3	17002.9	17459.5	18216.4	19065.4	20112.5	19988.4	18895.2	20571.0	19285.6
60°	13130.6	13334.9	14988.8	17275.3	20044.4	22699.5	23167.9	22879.7	21337.9	22695.4	21898.5
62.5°	9200.4	9412.5	11378.7	14956.7	19744.0	26803.9	28630.1	27386.6	24845.9	25825.0	25280.3
65°	4925.4	5027.6	6529.3	10377.6	16668.7	27651.0	36612.9	34720.8	30400.0	29683.2	28173.5
67.5°	2717.1	2773.1	3347.8	5239.9	10675.9	24349.3	41698.7	43128.3	37341.9	32252.0	27647.0
69°	2456.8	2508.7	2885.3	3968.4	7144.0	20132.5	41202.1	45344.7	40385.2	31997.7	25700.8
70°	2402.6	2450.8	2789.1	3658.1	5782.5	16594.6	39538.3	44778.2	41110.0	31086.7	24002.8
72.5°	2162.4	2214.5	2542.8	3285.7	4941.5	8273.3	31319.0	37860.3	37323.8	26954.2	18206.4
75°	2016.2	2064.3	2621.0	3217.5	4731.4	5235.9	20647.2	27903.2	27436.8	18855.2	9816.9
77.5°	862.9	859.0	1215.3	2723.0	4801.4	5069.7	11094.3	17431.5	15903.9	8059.1	2819.2
80°	576.6	566.7	576.6	800.8	4403.0	5097.7	5812.6	8847.9	6683.5	2054.3	1389.6
82.5°	496.6	488.6	506.6	488.6	1547.7	5818.5	4941.5	4705.2	3177.6	1167.3	688.8
85°	334.3	320.3	436.4	438.6	730.9	5169.7	5566.3	3974.5	2570.9	692.8	340.4
87.5°	160.2	156.1	254.3	310.4	428.5	2100.3	6244.9	4072.6	2592.9	354.4	162.1
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°	10561.8	10561.8	10561.8	10561.8	10561.8	10561.8	10561.8	10561.8	10561.8	10561.8	10561.8
2.5°	10459.8	10377.6	10297.5	10201.4	10101.4	9989.2	9933.1	9877.0	9863.0	9847.0	9790.9
5°	10171.4	10055.3	9855.0	9634.9	9402.5	9176.2	9004.2	8895.9	8813.9	8771.8	8697.7
7.5°	9799.0	9628.8	9278.4	8897.9	8507.5	8151.1	7842.8	7648.6	7464.3	7378.3	7280.1
10°	9444.6	9190.3	8645.6	8085.0	7524.5	6985.8	6479.2	6120.8	5802.5	5624.3	5498.2
12.5°	9140.3	8791.8	8037.0	7278.2	6509.3	5742.4	4983.5	4387.0	3888.4	3626.1	3491.9
15°	8844.0	8423.4	7458.4	6495.3	5508.1	4464.9	3467.8	2791.2	2378.6	2214.5	2158.4
17.5°	8575.6	8037.0	6877.8	5706.5	4474.9	3213.5	2330.7	1958.1	1800.1	1745.9	1727.9
20°	8285.2	7646.6	6275.0	4881.5	3397.7	2246.5	1820.1	1655.8	1591.7	1575.7	1567.7
22.5°	8004.9	7262.1	5698.4	3998.4	2440.8	1734.0	1563.8	1495.7	1485.6	1499.7	1499.7
25°	7766.7	6917.8	5075.7	3075.4	1791.9	1459.7	1399.6	1383.6	1421.6	1473.7	1483.7
27.5°	7588.5	6635.4	4413.0	2270.6	1427.5	1269.5	1267.4	1293.5	1387.5	1487.7	1507.6
30°	7466.4	6367.1	3704.2	1637.8	1197.4	1117.2	1149.3	1205.3	1343.5	1485.6	1523.7
32.5°	7404.3	6168.9	2965.3	1267.4	1025.1	981.0	1035.1	1103.3	1239.4	1371.5	1421.6
35°	7452.3	6022.7	2268.5	1057.1	905.0	870.9	927.1	993.0	1073.3	1129.3	1167.3
37.5°	7632.5	5964.7	1711.9	947.1	822.8	790.9	835.0	873.0	905.0	921.0	939.1
40°	8021.0	6026.8	1371.5	890.9	776.9	736.8	754.8	768.9	788.9	804.9	812.8
42.5°	8593.6	6212.9	1229.4	869.0	752.8	694.7	690.7	696.7	722.7	752.8	758.9
45°	9394.6	6541.3	1219.4	882.9	740.8	660.8	642.6	650.7	690.7	736.8	744.9
47.5°	10417.6	7041.9	1299.5	925.1	750.9	642.6	612.6	622.6	672.7	734.9	744.9
50°	11657.0	7740.6	1433.7	987.1	794.9	646.7	602.7	608.7	660.8	728.9	738.9
52.5°	13120.6	8731.7	1579.8	1047.2	841.0	672.7	610.7	596.7	644.8	704.8	716.8
55°	14748.6	10003.2	1730.0	1101.2	865.0	704.8	626.7	580.7	614.7	664.7	674.7
57.5°	16746.7	11781.2	1990.3	1153.3	881.0	726.8	642.6	564.7	576.6	612.6	620.6
60°	19451.8	14295.9	2448.7	1239.4	917.0	734.9	640.8	550.7	538.7	558.7	562.6
62.5°	22693.4	17027.1	2831.2	1347.5	977.0	740.8	628.8	540.6	506.6	506.6	510.5
65°	24617.5	17757.9	2618.9	1437.6	1027.1	734.9	614.7	530.5	482.5	460.6	462.4
67.5°	22985.7	15617.5	2244.5	1455.7	1025.1	706.7	592.6	512.6	458.6	424.4	422.5
69°	20941.5	13475.0	2076.3	1407.6	977.0	670.8	564.7	492.5	440.4	404.4	402.4
70°	19293.5	12167.6	1966.2	1355.5	925.1	644.8	542.5	474.6	426.4	392.4	388.4
72.5°	14027.8	7972.9	1679.9	1165.3	762.8	540.6	468.6	416.5	380.4	360.4	356.4
75°	7009.8	3802.3	1363.5	945.0	584.6	432.4	384.5	348.5	330.3	326.4	324.4
77.5°	2302.5	1742.0	975.1	704.8	434.5	338.4	310.4	284.4	280.4	292.3	288.4
80°	1265.4	1013.1	618.8	466.5	296.4	248.3	244.2	230.2	236.3	256.2	252.2
82.5°	644.8	526.5	382.4	280.4	200.2	178.3	194.3	186.2	194.3	212.2	210.3
85°	318.4	288.4	242.3	170.1	132.1	114.2	138.2	144.2	148.2	162.1	162.1
87.5°	184.2	170.1	128.2	80.0	66.0	60.0	80.0	78.2	92.0	100.2	98.2
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)