

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: P269726

Luminaire Tested: **GLEON-AF-10-LED-E1-SL4-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269726
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-SL4-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 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: 53357.3 lumens
Efficiency: N/A
Efficacy: 83.4 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): 640
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

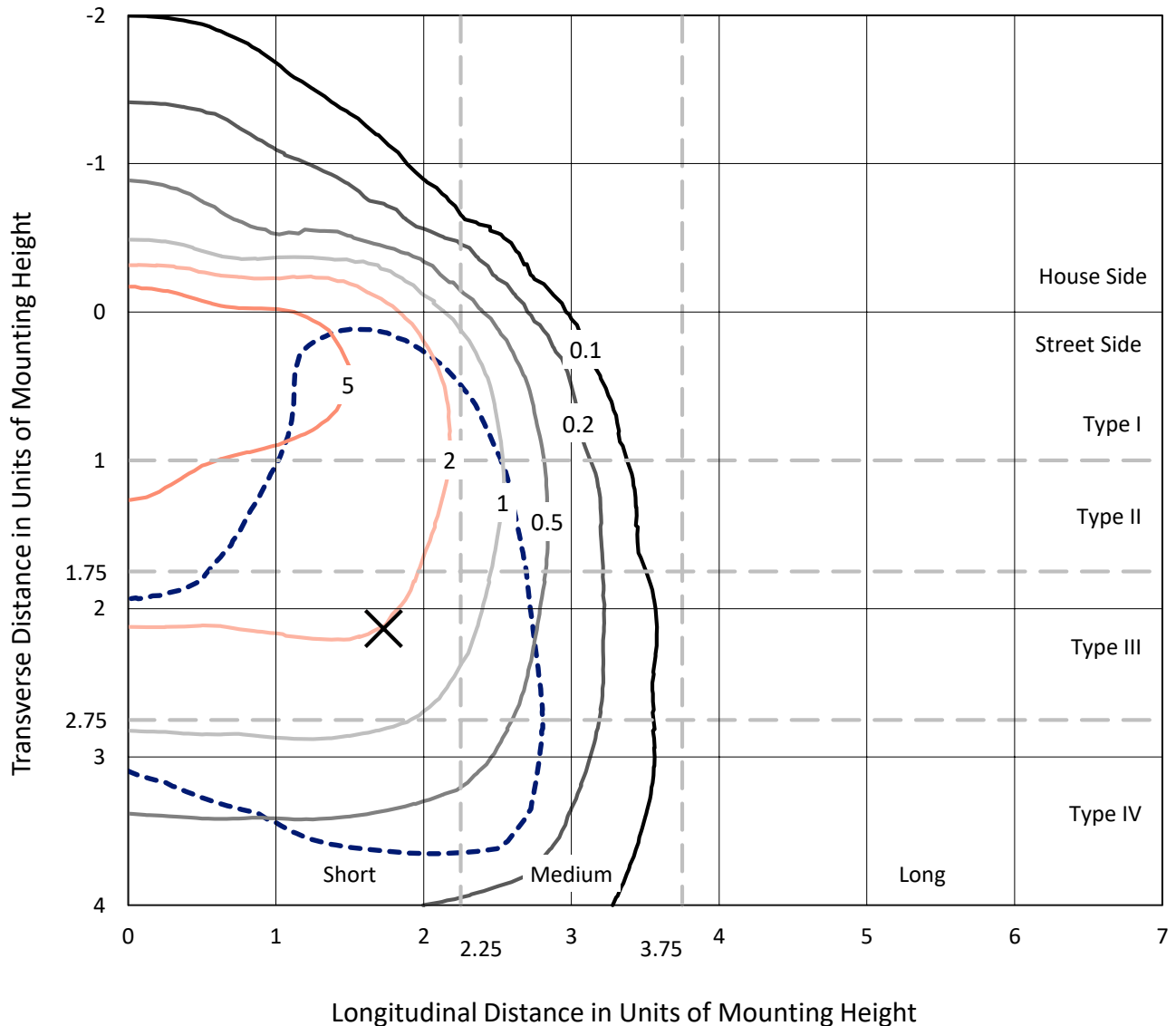


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

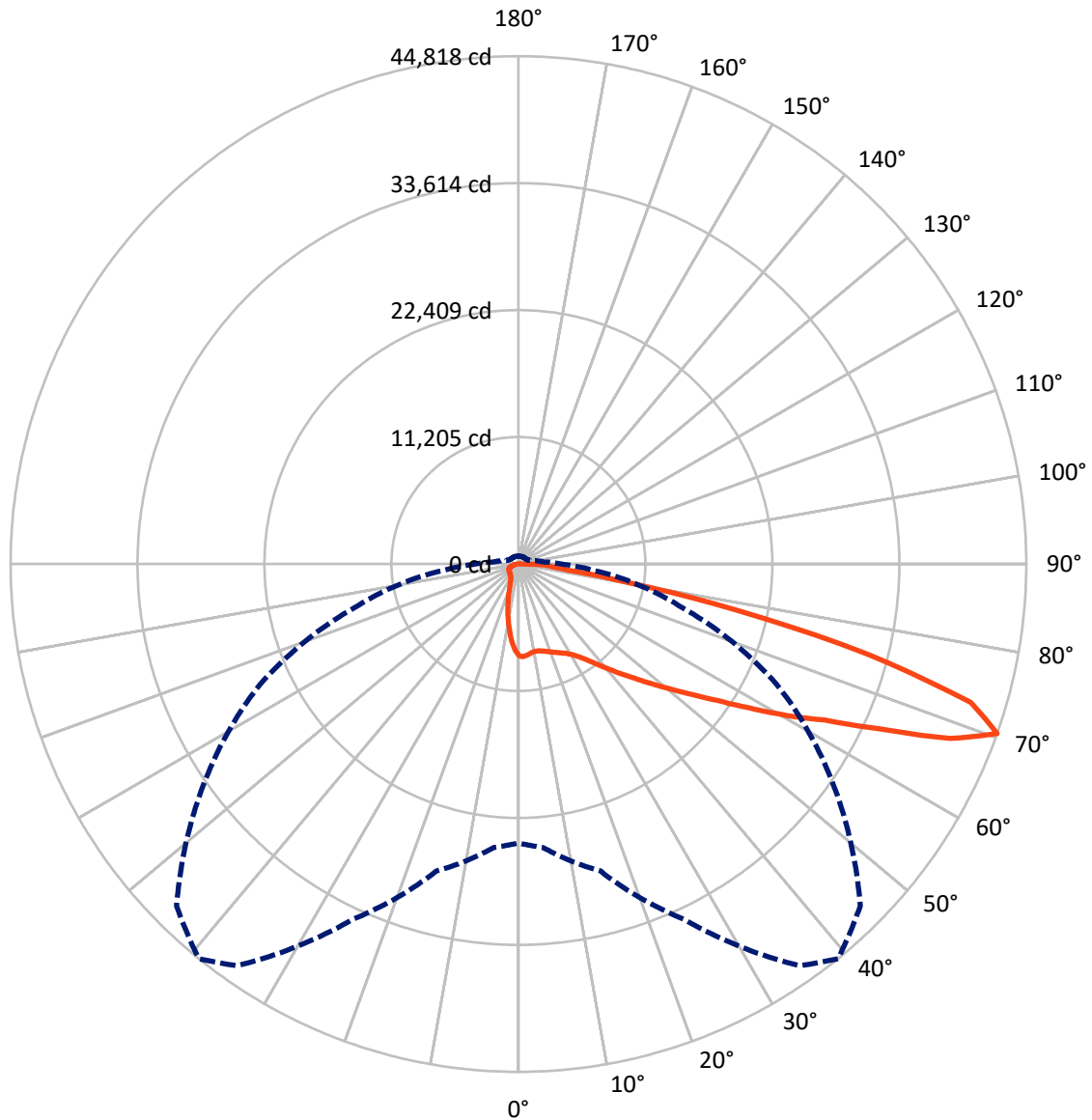


Based on 30 foot mounting height. Maximum calculated value = 9 fc
 Type IV - Short - Semi-Cutoff

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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	6068.5	0.0	6068.5
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	47288.7	0.0	47288.7
	% Fixture	88.6	0.0	88.6
Total	Lumens	53357.3	0.0	53357.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	695.2	1.3
10°-20°	1737.7	3.3
20°-30°	2705.6	5.1
30°-40°	4214.8	7.9
40°-50°	7076.0	13.3
50°-60°	11240.8	21.1
60°-70°	14994.0	28.1
70°-80°	9054.5	17.0
80°-90°	1638.7	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°	53357.3	100.0
0°-180°	53357.3	100.0

Coefficient of Utilization



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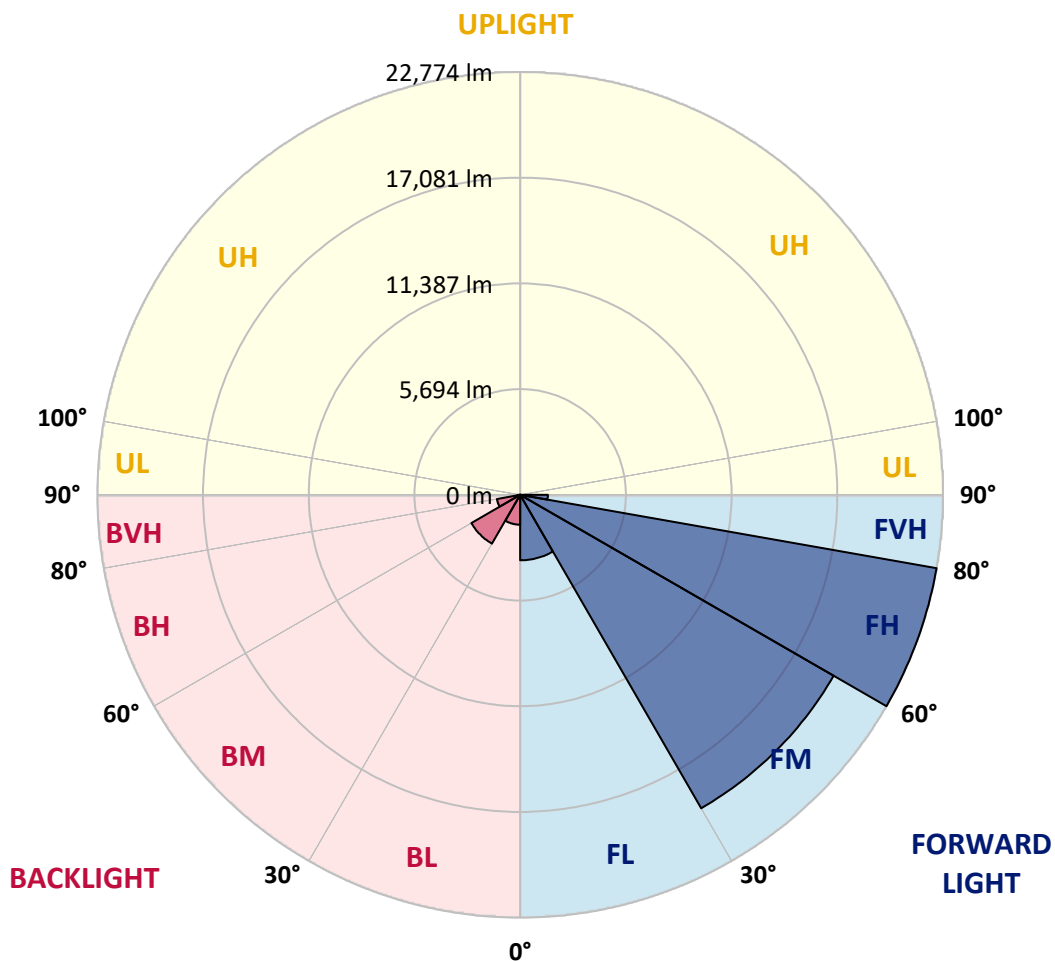
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3528.6	6.6			
FM	(30°-60°)	19494.7	36.5			
FH	(60°-80°)	22774.4	42.7			G5
FVH	(80°-90°)	1491.0	2.8			G5
BL	(0°-30°)	1609.9	3.0	B3/2500		
BM	(30°-60°)	3036.9	5.7	B3/5000		
BH	(60°-80°)	1274.0	2.4	B3/2500		G3/2500
BVH	(80°-90°)	147.7	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°	8100.5	8100.5	8100.5	8100.5	8100.5	8100.5	8100.5	8100.5	8100.5	8100.5	8100.5
2.5°	8257.8	8255.1	8233.3	8217.1	8203.5	8198.1	8209.0	8168.3	8133.1	8089.5	8043.6
5°	8195.3	8192.7	8157.4	8124.9	8092.3	8081.4	8078.7	8005.5	7962.0	7897.0	7810.3
7.5°	8127.5	8114.0	8067.9	8013.6	7956.6	7929.6	7902.4	7807.4	7758.7	7693.5	7593.2
10°	8057.1	8040.8	7997.4	7943.2	7888.8	7848.1	7802.0	7709.9	7658.3	7609.5	7492.9
12.5°	7983.7	7970.2	7959.4	7935.0	7897.0	7861.7	7826.5	7747.8	7693.5	7636.6	7500.9
15°	7972.9	7967.5	7992.0	8008.2	7986.6	7964.8	7926.9	7859.0	7802.0	7745.0	7568.8
17.5°	8059.8	8057.1	8119.4	8162.9	8151.9	8114.0	8062.5	7986.6	7940.4	7891.6	7671.9
20°	8249.7	8263.1	8339.1	8396.2	8341.9	8287.7	8203.5	8097.7	8073.3	8051.6	7777.6
22.5°	8607.7	8621.4	8675.7	8697.3	8556.1	8477.6	8360.9	8225.2	8209.0	8225.2	7905.2
25°	9166.6	9153.0	9144.8	9063.4	8805.7	8683.7	8534.4	8393.5	8401.6	8474.8	8084.1
27.5°	9907.1	9833.9	9720.0	9475.9	9066.2	8930.6	8748.9	8618.6	8670.1	8811.3	8352.7
30°	10674.9	10593.5	10330.4	9931.7	9407.9	9258.8	9055.4	8908.9	9044.6	9266.9	8710.9
32.5°	11385.7	11374.8	10989.7	10476.9	9880.1	9749.8	9546.4	9380.9	9600.6	9939.7	9248.1
35°	12161.6	12186.0	11724.8	11109.0	10517.5	10381.9	10235.5	10110.7	10403.6	10870.2	10026.5
37.5°	12991.6	13040.4	12495.2	11800.8	11244.7	11187.6	11100.9	11046.5	11499.7	12145.3	11114.4
40°	14101.2	14052.4	13295.5	12582.0	12137.1	12134.5	12107.3	12172.5	12926.6	13810.9	12511.6
42.5°	15289.4	15145.7	14144.6	13420.3	13116.4	13208.7	13262.9	13528.8	14643.8	15834.8	14215.0
45°	16569.9	16247.0	15026.3	14307.3	14204.3	14399.7	14584.2	15162.0	16664.7	18137.9	16081.5
47.5°	17592.5	17280.7	15937.8	15237.9	15463.1	15758.7	16114.1	17028.4	18927.3	20517.0	17923.5
50°	18398.2	18194.8	16857.5	16323.0	16849.2	17304.9	17885.6	19141.7	21282.0	22833.7	19629.9
52.5°	19179.6	19027.7	17785.3	17435.3	18477.0	19106.3	19895.8	21409.6	23696.4	25112.5	21065.0
55°	19884.9	19776.4	18783.5	18821.5	20392.2	21211.5	22204.3	23992.1	26327.9	27144.4	22280.3
57.5°	20679.8	20541.5	19922.9	20560.3	22852.7	23916.1	25207.5	26894.8	28796.4	28951.1	23205.3
60°	21480.0	21360.6	21187.1	22567.8	25977.8	27095.5	28319.1	29707.9	31300.5	30353.6	23151.2
62.5°	22174.5	22188.0	22494.6	24675.7	29037.9	30332.0	31824.1	33196.7	33565.6	30597.8	21439.4
65°	23351.9	23566.1	24480.4	27659.8	33346.0	35076.7	36907.9	36688.0	34192.2	28316.4	17769.0
67.5°	24751.7	25128.7	26981.6	31636.8	38790.5	41088.3	41796.2	37477.5	31683.0	23018.2	12666.1
70°	24610.7	25128.7	28061.3	34602.0	43277.6	44818.3	42669.9	33918.4	25158.7	15037.1	6727.8
72.5°	21854.4	22595.0	25861.2	33242.8	41864.2	41728.4	37043.4	25286.1	14947.5	6038.8	2628.7
75°	16656.6	17405.4	20215.8	26262.8	33088.2	31948.8	26284.4	13968.3	5672.4	2398.1	1657.6
77.5°	9581.6	10162.2	12332.4	16106.0	20991.8	19822.4	14630.2	6212.4	2761.6	1671.0	1294.0
80°	5349.6	5672.4	6990.9	8171.1	10287.0	9429.8	6545.9	3860.3	2061.7	1212.6	998.3
82.5°	4229.3	4516.9	5653.6	5154.4	4698.6	4335.1	3759.9	3437.2	1646.7	764.9	596.8
85°	3694.9	3968.8	4785.5	4058.4	3209.3	2943.3	3054.6	3382.8	1280.4	461.2	510.0
87.5°	3423.6	3789.8	4264.6	3127.9	2498.5	2213.7	2818.6	3708.5	412.3	287.5	206.3
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°	8100.5	8100.5	8100.5	8100.5	8100.5	8100.5	8100.5	8100.5	8100.5	8100.5	8100.5
2.5°	8002.8	7959.4	7888.8	7826.5	7728.7	7677.3	7620.3	7579.5	7547.0	7519.9	7563.3
5°	7756.0	7674.6	7525.3	7365.4	7175.4	7026.3	6901.4	6784.8	6703.3	6649.2	6687.2
7.5°	7522.6	7389.6	7156.3	6866.1	6540.6	6263.9	6036.0	5835.3	5697.0	5607.4	5642.7
10°	7389.6	7224.2	6863.4	6407.7	5927.5	5496.2	5138.0	4828.7	4614.6	4492.5	4511.4
12.5°	7357.2	7142.9	6643.7	6016.9	5360.5	4760.9	4256.3	3827.8	3526.7	3369.4	3374.8
15°	7381.6	7107.6	6437.6	5642.7	4812.5	4055.7	3426.2	2905.4	2555.5	2376.5	2373.7
17.5°	7422.2	7080.4	6220.5	5238.5	4256.3	3377.4	2674.9	2164.8	1855.5	1711.8	1700.9
20°	7465.6	7037.1	5976.3	4801.7	3678.6	2748.1	2094.3	1695.6	1500.2	1421.5	1416.1
22.5°	7528.1	6999.1	5724.0	4340.5	3111.5	2238.0	1722.6	1454.0	1351.1	1310.3	1304.9
25°	7628.4	6980.1	5455.4	3860.3	2601.6	1871.9	1500.2	1334.7	1275.1	1247.8	1245.2
27.5°	7796.6	7007.1	5203.2	3393.7	2186.6	1624.9	1375.3	1275.1	1231.7	1207.2	1204.4
30°	8013.6	7091.3	4937.4	2951.6	1863.8	1456.8	1299.5	1234.4	1199.1	1174.7	1174.7
32.5°	8374.4	7232.3	4657.9	2569.1	1633.1	1340.1	1242.4	1199.1	1169.2	1150.2	1147.6
35°	8906.2	7498.2	4397.5	2251.6	1467.7	1256.0	1193.7	1161.1	1139.4	1128.5	1128.5
37.5°	9679.2	7918.6	4166.9	2023.7	1367.3	1199.1	1147.6	1123.2	1109.5	1109.5	1109.5
40°	10718.3	8499.3	3979.8	1871.9	1310.3	1158.4	1112.2	1093.2	1085.2	1087.8	1087.8
42.5°	12001.4	9253.4	3854.8	1766.1	1283.1	1134.0	1087.8	1071.6	1063.5	1060.7	1063.5
45°	13463.6	10110.7	3841.3	1687.3	1256.0	1117.8	1071.6	1055.2	1039.0	1028.2	1028.2
47.5°	14885.3	10981.5	3952.5	1660.2	1226.1	1098.6	1058.1	1041.8	1017.3	992.8	992.8
50°	16141.3	11722.1	4101.8	1671.0	1215.3	1071.6	1036.3	1028.2	990.2	963.1	960.4
52.5°	17139.5	12291.8	4223.8	1703.6	1226.1	1052.5	1009.2	1011.9	971.2	941.3	938.5
55°	17939.8	12666.1	4191.3	1736.2	1250.6	1041.8	984.7	990.2	957.7	927.8	927.8
57.5°	18289.9	12527.8	3830.6	1709.0	1269.7	1044.4	965.8	987.4	960.4	933.2	933.2
60°	17538.2	11298.9	3154.9	1589.7	1245.2	1036.3	957.7	998.3	995.6	968.5	965.8
62.5°	15265.0	9098.8	2447.0	1413.4	1161.1	995.6	935.9	995.6	1025.4	1017.3	1014.5
65°	11765.6	6480.9	1869.2	1223.5	1047.2	927.8	878.9	933.2	973.9	984.7	982.0
67.5°	7636.6	3971.5	1440.5	1044.4	919.7	849.1	805.7	830.2	838.3	838.3	832.8
70°	3754.6	2137.6	1147.6	878.9	789.4	764.9	740.7	727.1	713.4	702.7	702.7
72.5°	1852.8	1397.1	944.1	743.3	680.9	670.0	664.7	648.3	637.4	624.0	618.6
75°	1369.9	1136.6	802.9	626.7	586.0	575.2	586.0	572.4	569.6	558.8	553.4
77.5°	1125.8	968.5	691.8	537.1	501.9	482.8	499.2	501.9	504.6	488.3	482.8
80°	914.2	819.3	577.8	444.9	412.3	398.8	409.6	431.4	436.8	412.3	401.5
82.5°	659.3	670.0	466.6	347.3	320.2	309.2	330.9	358.1	363.5	328.2	320.2
85°	553.4	558.8	358.1	246.9	219.7	203.5	238.7	265.9	284.9	249.5	241.5
87.5°	230.5	328.2	206.3	138.3	122.1	105.8	127.5	141.0	170.9	157.4	154.6
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)