

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: P191983

Luminaire Tested: **GLEON-AF-05-LED-E1-SL3-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191983
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-05-LED-E1-SL3-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 1200mA 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: 32639 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 320
Input Voltage (V): NR
Input Current (A_{in}): 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

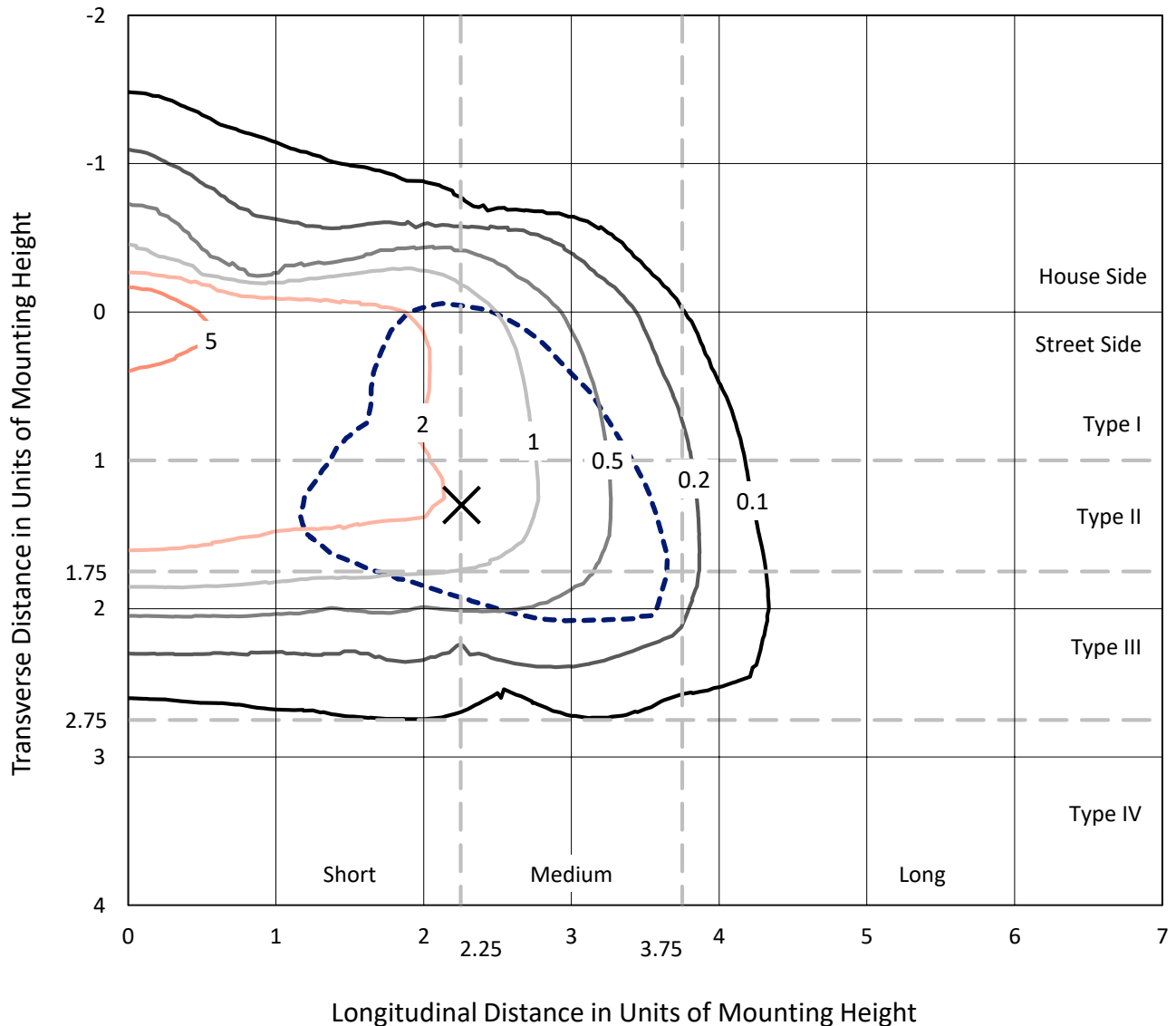


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

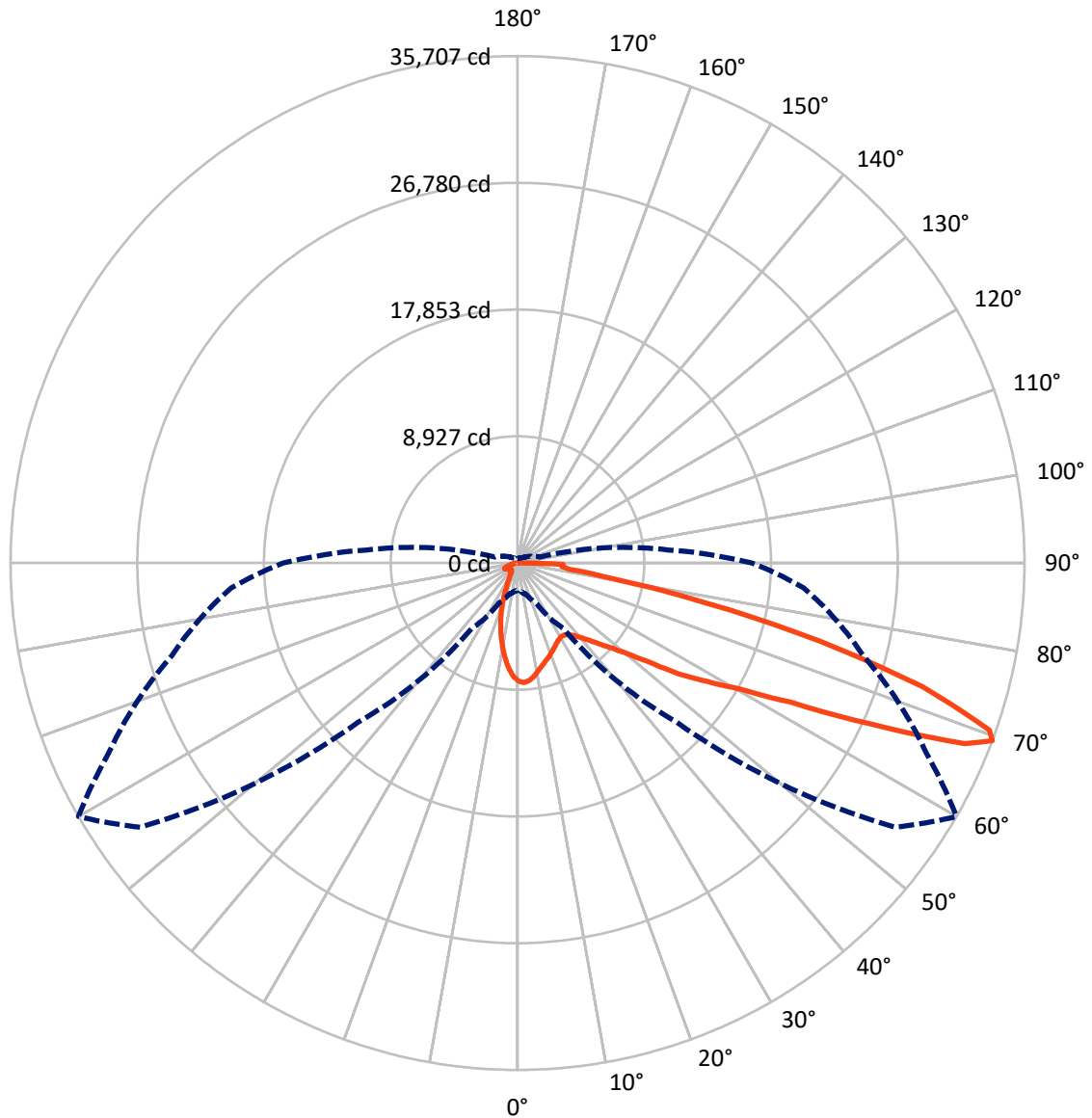


Based on 30 foot mounting height. Maximum calculated value = 9.2 fc
 Type III - Medium - Non-Cutoff

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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	4643.5	0.0	4643.5
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	27995.5	0.0	27995.5
	% Fixture	85.8	0.0	85.8
Total	Lumens	32639.0	0.0	32639.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	703.2	2.2
10°-20°	1498.3	4.6
20°-30°	1909.1	5.8
30°-40°	2624.5	8.0
40°-50°	4258.5	13.0
50°-60°	6829.5	20.9
60°-70°	9089.5	27.8
70°-80°	4907.6	15.0
80°-90°	818.9	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°	32639.0	100.0
0°-180°	32639.0	100.0



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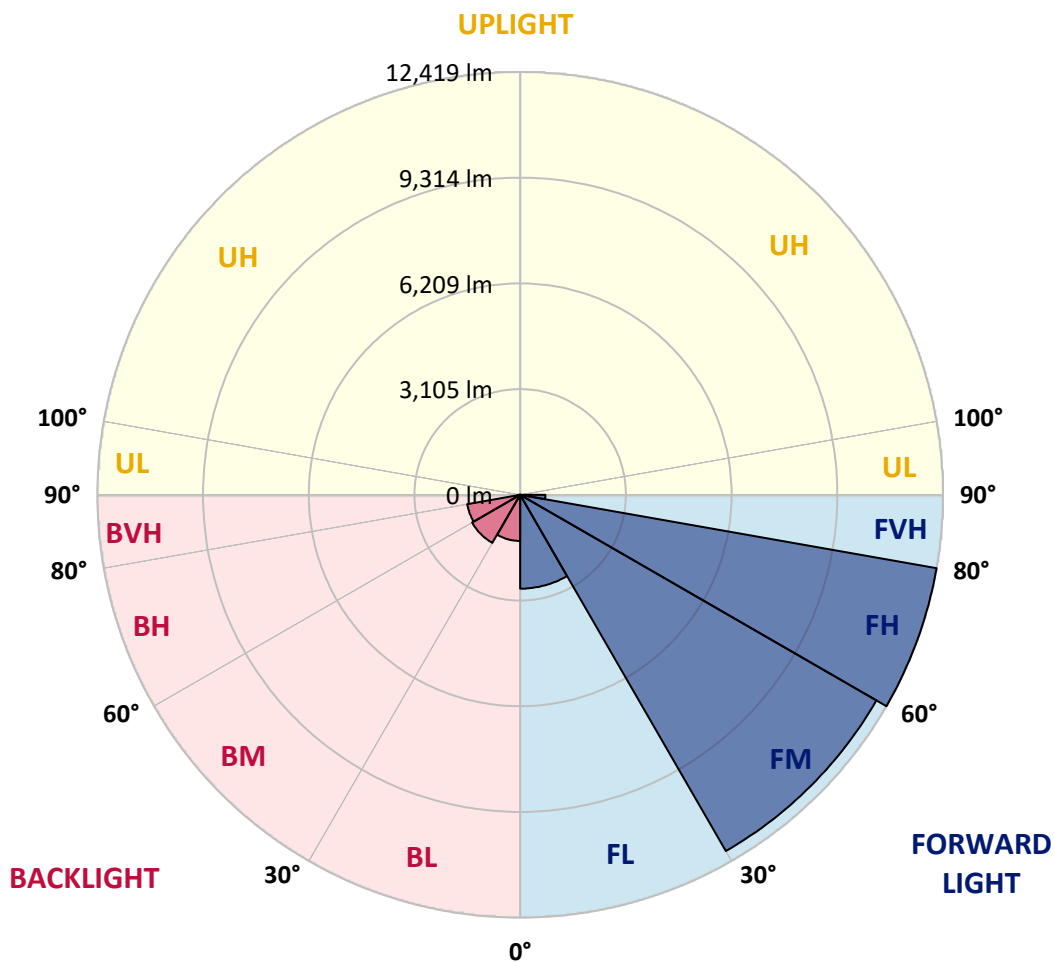
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2755.9	8.4			
FM (30°-60°)	12081.1	37.0			
FH (60°-80°)	12418.5	38.0			G5
FVH (80°-90°)	740.0	2.3			G4/750
BL (0°-30°)	1354.7	4.2	B3/2500		
BM (30°-60°)	1631.3	5.0	B2/2500		
BH (60°-80°)	1578.6	4.8	B3/2500		G3/2500
BVH (80°-90°)	78.9	0.2			G1/100
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°	8316.9	8316.9	8316.9	8316.9	8316.9	8316.9	8316.9	8316.9	8316.9	8316.9	8316.9
2.5°	8487.2	8506.1	8498.2	8493.5	8507.7	8485.6	8439.9	8425.7	8403.6	8351.6	8263.3
5°	8168.7	8225.5	8222.3	8264.9	8335.8	8354.8	8334.3	8337.4	8296.4	8231.8	8085.1
7.5°	7618.4	7642.1	7654.7	7747.7	7877.0	7981.1	8069.4	8097.8	8078.8	8023.7	7834.5
10°	7050.9	7069.8	7099.7	7208.5	7372.5	7516.0	7683.1	7779.3	7820.3	7810.8	7599.5
12.5°	6563.7	6582.6	6622.0	6745.0	6940.5	7117.1	7359.9	7479.7	7577.5	7635.8	7408.8
15°	6126.9	6167.9	6205.8	6347.7	6566.8	6798.6	7072.9	7224.3	7375.6	7506.5	7240.1
17.5°	5786.4	5827.4	5849.4	5978.7	6212.1	6495.9	6817.5	6995.7	7184.9	7399.3	7072.9
20°	5589.3	5608.2	5598.7	5671.3	5881.0	6182.1	6563.7	6770.2	6998.8	7298.4	6905.8
22.5°	5534.1	5535.7	5501.0	5493.1	5628.7	5882.5	6292.5	6543.2	6823.8	7232.2	6762.3
25°	5668.1	5663.4	5568.8	5491.5	5505.7	5653.9	6030.7	6322.4	6677.2	7218.0	6652.0
27.5°	5966.1	5980.3	5840.0	5694.9	5551.4	5546.7	5832.1	6139.5	6557.4	7282.6	6604.7
30°	6383.9	6407.6	6257.8	6073.3	5803.7	5581.4	5754.8	6030.7	6483.3	7416.6	6596.8
32.5°	6841.2	6866.4	6752.9	6558.9	6205.8	5795.8	5808.4	6040.2	6480.1	7604.3	6650.4
35°	7328.3	7356.7	7298.4	7134.4	6741.8	6191.6	6013.4	6193.1	6582.6	7891.2	6793.9
37.5°	7872.3	7916.4	7932.2	7776.1	7356.7	6713.4	6349.2	6483.3	6814.4	8290.1	7057.2
40°	8655.9	8717.4	8712.7	8488.8	8061.5	7418.2	6868.0	6902.6	7175.4	8823.0	7478.1
42.5°	10156.9	10169.5	9776.9	9289.7	8837.2	8159.2	7479.7	7451.3	7673.6	9497.8	8097.8
45°	12066.2	12014.2	11140.7	10199.5	9647.6	9010.6	8275.9	8137.2	8305.9	10320.9	8873.5
47.5°	13650.8	13530.9	12427.3	11128.1	10505.3	9936.1	9210.9	8968.1	9061.1	11254.2	9876.2
50°	14201.0	14111.2	13196.7	11900.7	11317.3	11065.0	10361.8	10018.1	10043.4	12367.4	11050.9
52.5°	14082.8	14070.2	13460.0	12409.9	12077.3	12250.7	11992.1	11527.0	11281.0	13603.5	12318.5
55°	13803.7	13830.5	13609.8	13002.8	12946.0	13395.4	14122.2	13778.5	13013.8	14850.6	13628.7
57.5°	12834.1	12903.4	13389.0	13748.5	14344.5	15013.0	15837.6	15739.9	14879.0	16198.7	15186.4
60°	10339.8	10500.6	11802.9	13603.5	15784.0	17874.7	18243.6	18016.6	16802.5	17871.5	17244.0
62.5°	7244.8	7411.9	8960.2	11777.7	15547.5	21106.8	22544.7	21565.6	19564.8	20335.8	19907.0
65°	3878.6	3959.0	5141.5	8171.9	13125.7	21773.8	28830.9	27341.0	23938.5	23374.1	22185.3
67.5°	2139.5	2183.7	2636.2	4126.1	8406.8	19173.8	32835.6	33961.4	29404.8	25396.9	21770.6
69°	1934.6	1975.6	2272.0	3125.0	5625.5	15853.4	32444.6	35706.8	31801.4	25196.7	20238.1
70°	1892.0	1929.8	2196.3	2880.6	4553.4	13067.4	31134.4	35260.6	32372.1	24479.3	18901.1
72.5°	1702.8	1743.8	2002.4	2587.3	3891.2	6514.8	24662.2	29813.2	29390.6	21225.1	14336.6
75°	1587.7	1625.5	2063.9	2533.7	3725.7	4123.0	16258.6	21972.4	21605.1	14847.5	7730.4
77.5°	679.5	676.4	957.0	2144.3	3780.8	3992.1	8736.3	13726.5	12523.5	6346.1	2219.9
80°	454.1	446.2	454.1	630.7	3467.1	4014.2	4577.1	6967.3	5262.9	1617.7	1094.2
82.5°	391.0	384.7	398.9	384.7	1218.8	4581.8	3891.2	3705.2	2502.2	919.2	542.4
85°	263.3	252.3	343.7	345.3	575.5	4071.0	4383.1	3129.7	2024.4	545.5	268.0
87.5°	126.1	123.0	200.2	244.4	337.4	1653.9	4917.6	3206.9	2041.8	279.1	127.7
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°	8316.9	8316.9	8316.9	8316.9	8316.9	8316.9	8316.9	8316.9	8316.9	8316.9	8316.9
2.5°	8236.5	8171.9	8108.8	8033.1	7954.3	7866.0	7821.8	7777.7	7766.7	7754.0	7709.9
5°	8009.5	7918.0	7760.3	7586.9	7404.0	7225.9	7090.3	7005.1	6940.5	6907.4	6849.0
7.5°	7716.2	7582.2	7306.3	7006.7	6699.3	6418.6	6175.8	6022.9	5877.8	5810.0	5732.8
10°	7437.1	7236.9	6808.0	6366.6	5925.1	5501.0	5102.1	4819.9	4569.2	4428.9	4329.5
12.5°	7197.5	6923.1	6328.7	5731.2	5125.7	4521.9	3924.3	3454.5	3061.9	2855.3	2749.7
15°	6964.1	6633.0	5873.1	5114.7	4337.4	3516.0	2730.8	2197.9	1873.1	1743.8	1699.6
17.5°	6752.9	6328.7	5415.8	4493.5	3523.8	2530.5	1835.2	1542.0	1417.4	1374.9	1360.7
20°	6524.2	6021.3	4941.3	3843.9	2675.6	1769.0	1433.2	1303.9	1253.4	1240.8	1234.5
22.5°	6303.5	5718.6	4487.2	3148.6	1922.0	1365.4	1231.4	1177.8	1169.9	1180.9	1180.9
25°	6115.9	5447.4	3996.8	2421.8	1411.1	1149.4	1102.1	1089.5	1119.4	1160.4	1168.3
27.5°	5975.6	5225.1	3475.0	1787.9	1124.2	999.6	998.0	1018.5	1092.6	1171.5	1187.2
30°	5879.4	5013.8	2916.8	1289.7	942.8	879.8	905.0	949.2	1057.9	1169.9	1199.8
32.5°	5830.5	4857.7	2335.0	998.0	807.3	772.6	815.1	868.7	976.0	1080.0	1119.4
35°	5868.4	4742.6	1786.4	832.5	712.7	685.8	730.0	782.0	845.1	889.2	919.2
37.5°	6010.3	4696.9	1348.0	745.8	648.0	622.8	657.5	687.4	712.7	725.3	739.5
40°	6316.1	4745.8	1080.0	701.6	611.7	580.2	594.4	605.4	621.2	633.8	640.1
42.5°	6767.1	4892.4	968.1	684.3	592.8	547.1	543.9	548.7	569.2	592.8	597.6
45°	7397.7	5151.0	960.2	695.3	583.4	520.3	506.1	512.4	543.9	580.2	586.5
47.5°	8203.4	5545.1	1023.3	728.4	591.2	506.1	482.5	490.3	529.8	578.6	586.5
50°	9179.3	6095.4	1128.9	777.3	625.9	509.3	474.6	479.3	520.3	573.9	581.8
52.5°	10331.9	6875.8	1244.0	824.6	662.2	529.8	480.9	469.8	507.7	555.0	564.4
55°	11613.7	7877.0	1362.2	867.2	681.1	555.0	493.5	457.2	484.0	523.5	531.3
57.5°	13187.2	9277.1	1567.2	908.2	693.7	572.3	506.1	444.6	454.1	482.5	488.8
60°	15317.3	11257.4	1928.3	976.0	722.1	578.6	504.5	433.6	424.1	439.9	443.0
62.5°	17869.9	13408.0	2229.4	1061.1	769.4	583.4	495.1	425.7	398.9	398.9	402.0
65°	19385.1	13983.5	2062.3	1132.0	808.8	578.6	484.0	417.8	380.0	362.6	364.2
67.5°	18100.1	12298.0	1767.4	1146.2	807.3	556.6	466.7	403.6	361.1	334.3	332.7
69°	16490.3	10611.0	1635.0	1108.4	769.4	528.2	444.6	387.9	346.9	318.5	316.9
70°	15192.8	9581.4	1548.3	1067.4	728.4	507.7	427.3	373.7	335.8	309.0	305.9
72.5°	11046.1	6278.3	1322.8	917.6	600.7	425.7	368.9	327.9	299.6	283.8	280.6
75°	5519.9	2994.1	1073.7	744.2	460.4	340.6	302.7	274.3	260.1	257.0	255.4
77.5°	1813.2	1371.7	767.8	555.0	342.1	266.5	244.4	223.9	220.7	230.2	227.0
80°	996.5	797.8	487.2	367.4	233.3	195.5	192.4	181.3	186.0	201.8	198.7
82.5°	507.7	414.7	301.1	220.7	157.7	140.3	152.9	146.6	152.9	167.1	165.5
85°	250.7	227.0	190.8	134.0	104.1	89.9	108.8	113.5	116.7	127.7	127.7
87.5°	145.1	134.0	100.9	63.1	52.0	47.3	63.1	61.5	72.5	78.8	77.3
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)