

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: P193698

Luminaire Tested: **GLEON-AF-10-LED-E1-SL3-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193698
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-10-LED-E1-SL3-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 615mA 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: 31678 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G5

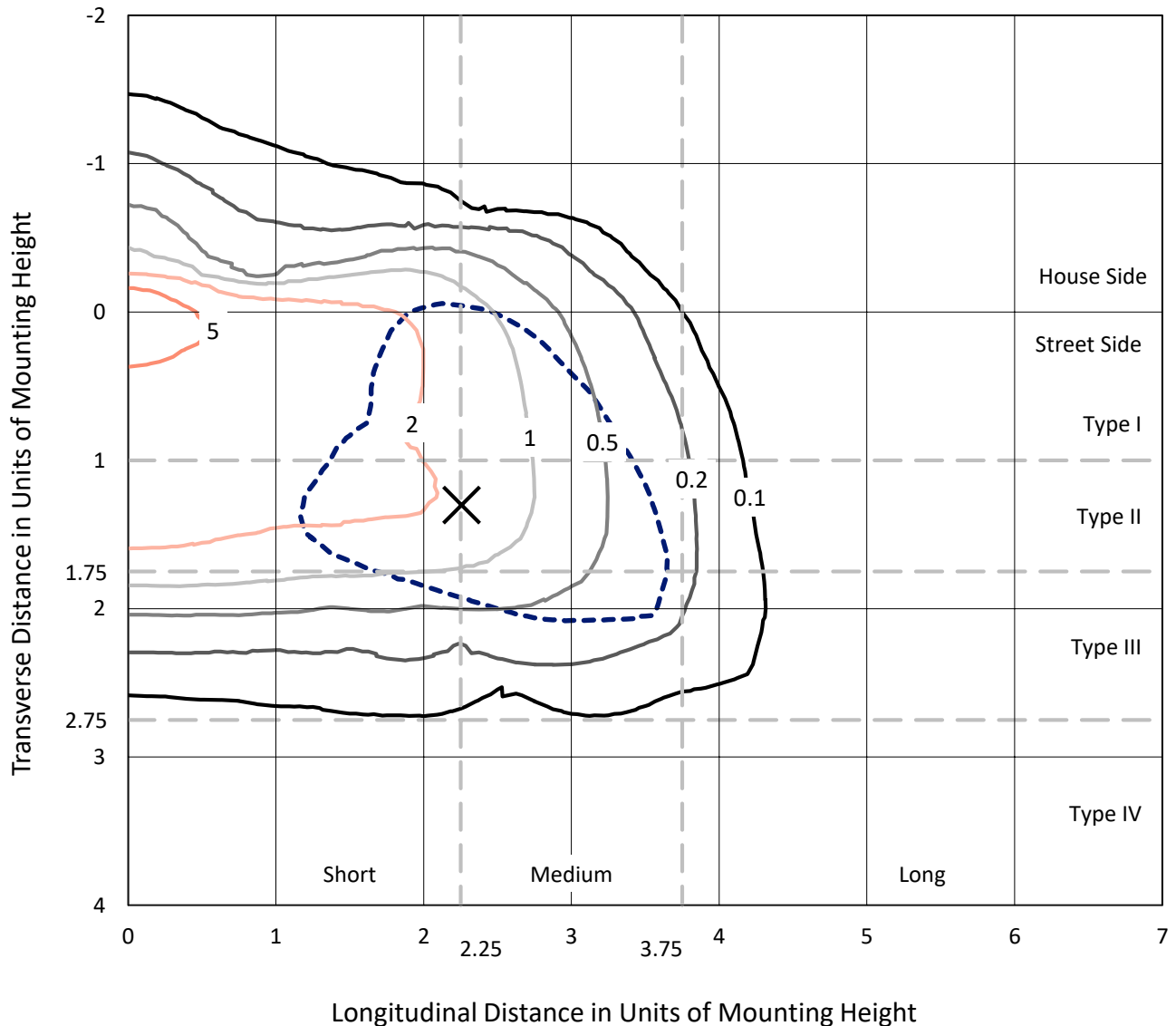
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

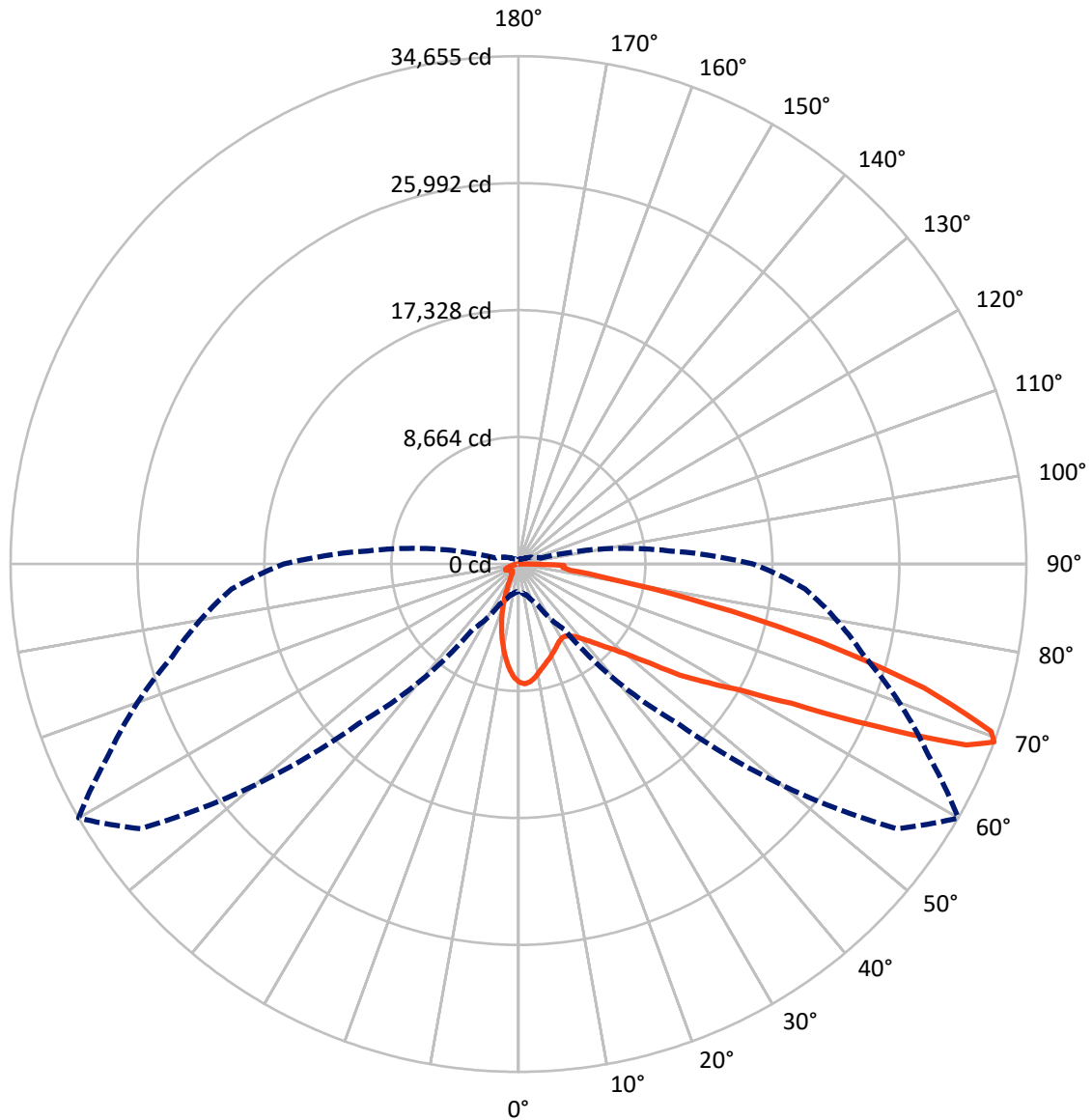
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9 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	4506.8	0.0	4506.8
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	27171.2	0.0	27171.2
	% Fixture	85.8	0.0	85.8
Total	Lumens	31678.0	0.0	31678.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	682.5	2.2
10°-20°	1454.2	4.6
20°-30°	1852.9	5.8
30°-40°	2547.2	8.0
40°-50°	4133.1	13.0
50°-60°	6628.4	20.9
60°-70°	8821.9	27.8
70°-80°	4763.1	15.0
80°-90°	794.8	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°	31678.0	100.0
0°-180°	31678.0	100.0



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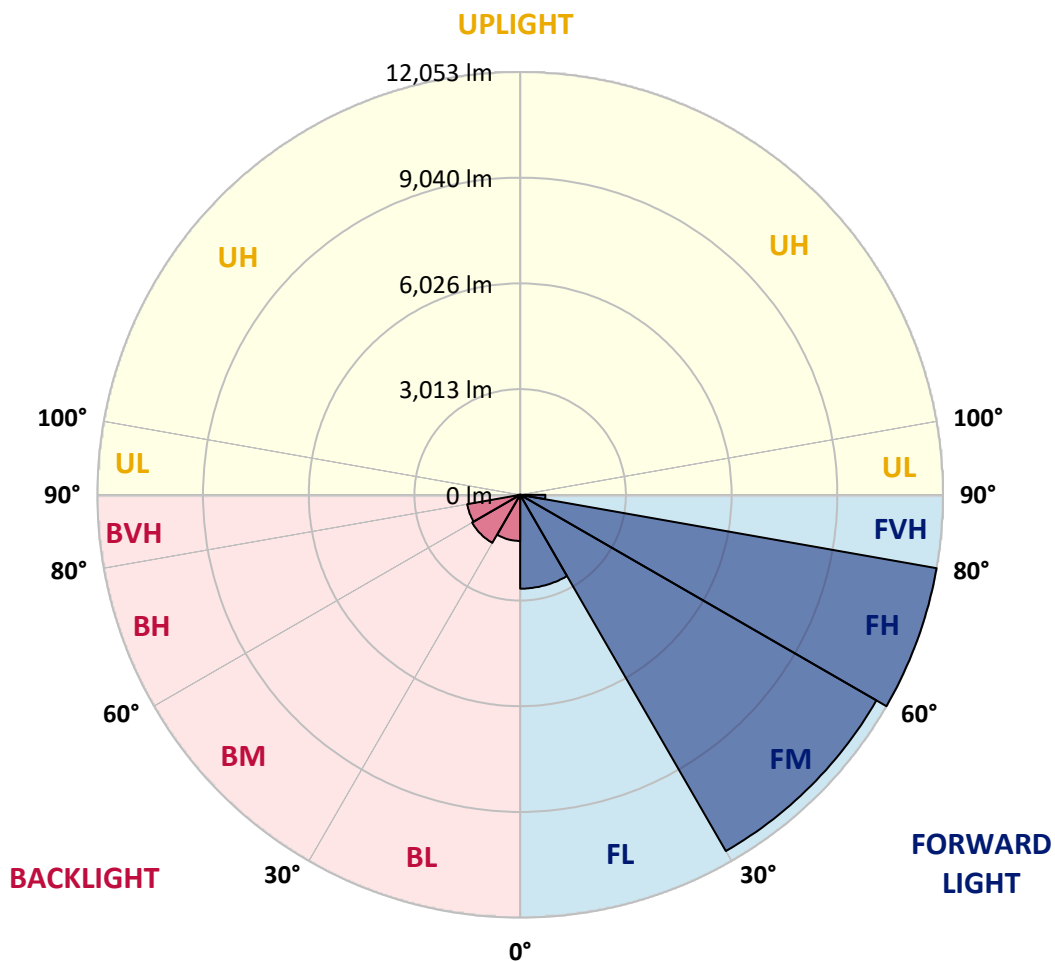
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2674.8	8.4			
FM (30°-60°)	11725.4	37.0			
FH (60°-80°)	12052.9	38.0			G5
FVH (80°-90°)	718.2	2.3			G4/750
BL (0°-30°)	1314.8	4.2	B3/2500		
BM (30°-60°)	1583.3	5.0	B2/2500		
BH (60°-80°)	1532.2	4.8	B3/2500		G3/2500
BVH (80°-90°)	76.5	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°	8072.0	8072.0	8072.0	8072.0	8072.0	8072.0	8072.0	8072.0	8072.0	8072.0	8072.0
2.5°	8237.3	8255.7	8248.0	8243.4	8257.2	8235.8	8191.4	8177.6	8156.2	8105.7	8020.0
5°	7928.2	7983.3	7980.2	8021.5	8090.4	8108.8	8088.9	8091.9	8052.1	7989.4	7847.1
7.5°	7394.1	7417.1	7429.3	7519.6	7645.1	7746.1	7831.8	7859.3	7841.0	7787.4	7603.8
10°	6843.2	6861.6	6890.7	6996.3	7155.4	7294.7	7456.9	7550.2	7590.0	7580.8	7375.8
12.5°	6370.4	6388.8	6427.0	6546.4	6736.1	6907.5	7143.2	7259.5	7354.4	7411.0	7190.6
15°	5946.5	5986.3	6023.0	6160.8	6373.5	6598.4	6864.7	7011.6	7158.5	7285.5	7026.9
17.5°	5616.0	5655.8	5677.2	5802.7	6029.2	6304.6	6616.8	6789.7	6973.3	7181.4	6864.7
20°	5424.7	5443.1	5433.9	5504.3	5707.8	6000.1	6370.4	6570.9	6792.8	7083.5	6702.5
22.5°	5371.2	5372.7	5339.0	5331.4	5463.0	5709.3	6107.2	6350.5	6622.9	7019.2	6563.2
25°	5501.2	5496.6	5404.8	5329.8	5343.6	5487.5	5853.2	6136.3	6480.6	7005.5	6456.1
27.5°	5790.4	5804.2	5668.0	5527.2	5388.0	5383.4	5660.4	5958.8	6364.3	7068.2	6410.2
30°	6196.0	6218.9	6073.5	5894.5	5632.8	5417.1	5585.4	5853.2	6292.4	7198.3	6402.5
32.5°	6639.7	6664.2	6554.0	6365.8	6023.0	5625.2	5637.4	5862.4	6289.3	7380.4	6454.6
35°	7112.6	7140.1	7083.5	6924.4	6543.3	6009.3	5836.3	6010.8	6388.8	7658.9	6593.8
37.5°	7640.5	7683.4	7698.7	7547.2	7140.1	6515.8	6162.3	6292.4	6613.7	8046.0	6849.4
40°	8401.0	8460.7	8456.1	8238.8	7824.1	7199.8	6665.7	6699.4	6964.1	8563.2	7257.9
42.5°	9857.8	9870.1	9489.0	9016.2	8577.0	7919.0	7259.5	7231.9	7447.7	9218.2	7859.3
45°	11711.0	11660.5	10812.7	9899.1	9363.6	8745.3	8032.2	7897.6	8061.3	10017.0	8612.2
47.5°	13248.8	13132.6	12061.4	10800.5	10196.0	9643.6	8939.7	8704.0	8794.3	10922.9	9585.4
50°	13782.9	13695.7	12808.1	11550.3	10984.1	10739.3	10056.8	9723.2	9747.7	12003.2	10725.5
52.5°	13668.1	13655.9	13063.7	12044.5	11721.7	11890.0	11639.0	11187.6	10948.9	13202.9	11955.8
55°	13397.3	13423.3	13209.1	12619.9	12564.8	13001.0	13706.4	13372.8	12630.6	14413.4	13227.4
57.5°	12456.2	12523.5	12994.8	13343.7	13922.2	14571.0	15371.3	15276.4	14440.9	15721.7	14739.3
60°	10035.3	10191.4	11455.4	13202.9	15319.3	17348.4	17706.4	17486.1	16307.8	17345.3	16736.3
62.5°	7031.5	7193.7	8696.4	11430.9	15089.7	20485.4	21881.0	20930.7	18988.8	19737.1	19320.9
65°	3764.4	3842.4	4990.1	7931.3	12739.3	21132.7	27982.0	26536.0	23233.7	22685.9	21532.1
67.5°	2076.5	2119.4	2558.6	4004.6	8159.3	18609.3	31868.9	32961.4	28539.0	24649.2	21129.6
69°	1877.6	1917.4	2205.1	3032.9	5459.9	15386.6	31489.4	34655.4	30865.0	24454.8	19642.2
70°	1836.3	1873.0	2131.6	2795.8	4419.3	12682.7	30217.7	34222.4	31419.0	23758.6	18344.6
72.5°	1652.7	1692.4	1943.4	2511.1	3776.6	6323.0	23936.1	28935.4	28525.3	20600.1	13914.5
75°	1541.0	1577.7	2003.1	2459.1	3616.0	4001.6	15779.9	21325.5	20968.9	14410.3	7502.8
77.5°	659.5	656.5	928.9	2081.1	3669.5	3874.6	8479.1	13322.3	12154.7	6159.2	2154.6
80°	440.7	433.1	440.7	612.1	3365.0	3896.0	4442.3	6762.1	5108.0	1570.0	1062.0
82.5°	379.5	373.4	387.2	373.4	1182.9	4446.9	3776.6	3596.1	2428.5	892.1	526.4
85°	255.6	244.8	333.6	335.1	558.5	3951.1	4254.1	3037.5	1964.8	529.5	260.1
87.5°	122.4	119.4	194.3	237.2	327.5	1605.2	4772.8	3112.5	1981.7	270.9	123.9
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°	8072.0	8072.0	8072.0	8072.0	8072.0	8072.0	8072.0	8072.0	8072.0	8072.0	8072.0
2.5°	7994.0	7931.3	7870.0	7796.6	7720.1	7634.4	7591.5	7548.7	7538.0	7525.7	7482.9
5°	7773.6	7684.9	7531.9	7363.5	7186.0	7013.1	6881.5	6798.9	6736.1	6704.0	6647.4
7.5°	7489.0	7358.9	7091.1	6800.4	6502.0	6229.6	5994.0	5845.5	5704.7	5638.9	5564.0
10°	7218.2	7023.8	6607.6	6179.1	5750.7	5339.0	4951.9	4678.0	4434.6	4298.5	4202.0
12.5°	6985.6	6719.3	6142.4	5562.4	4974.8	4388.7	3808.8	3352.8	2971.7	2771.3	2668.7
15°	6759.1	6437.7	5700.2	4964.1	4209.7	3412.4	2650.4	2133.2	1817.9	1692.4	1649.6
17.5°	6554.0	6142.4	5256.4	4361.2	3420.1	2456.0	1781.2	1496.6	1375.7	1334.4	1320.6
20°	6332.1	5844.0	4795.8	3730.7	2596.8	1716.9	1391.0	1265.5	1216.5	1204.3	1198.2
22.5°	6117.9	5550.2	4355.1	3055.9	1865.4	1325.2	1195.1	1143.1	1135.4	1146.2	1146.2
25°	5935.8	5287.0	3879.2	2350.5	1369.6	1115.5	1069.6	1057.4	1086.5	1126.3	1133.9
27.5°	5799.6	5071.2	3372.7	1735.3	1091.1	970.2	968.6	988.5	1060.5	1137.0	1152.3
30°	5706.3	4866.2	2831.0	1251.7	915.1	853.9	878.4	921.2	1026.8	1135.4	1164.5
32.5°	5658.8	4714.7	2266.3	968.6	783.5	749.8	791.1	843.2	947.2	1048.2	1086.5
35°	5695.6	4603.0	1733.8	808.0	691.7	665.7	708.5	759.0	820.2	863.1	892.1
37.5°	5833.3	4558.6	1308.4	723.8	628.9	604.4	638.1	667.2	691.7	703.9	717.7
40°	6130.2	4606.0	1048.2	681.0	593.7	563.1	576.9	587.6	602.9	615.2	621.3
42.5°	6567.8	4748.3	939.6	664.1	575.4	531.0	527.9	532.5	552.4	575.4	580.0
45°	7179.9	4999.3	931.9	674.8	566.2	505.0	491.2	497.3	527.9	563.1	569.3
47.5°	7961.9	5381.9	993.1	707.0	573.8	491.2	468.3	475.9	514.2	561.6	569.3
50°	8909.1	5915.9	1095.7	754.4	607.5	494.3	460.6	465.2	505.0	557.0	564.7
52.5°	10027.7	6673.4	1207.4	800.3	642.7	514.2	466.7	456.0	492.7	538.6	547.8
55°	11271.8	7645.1	1322.1	841.6	661.1	538.6	479.0	443.8	469.8	508.0	515.7
57.5°	12799.0	9004.0	1521.1	881.4	673.3	555.5	491.2	431.5	440.7	468.3	474.4
60°	14866.3	10925.9	1871.5	947.2	700.9	561.6	489.7	420.8	411.6	426.9	430.0
62.5°	17343.8	13013.2	2163.8	1029.9	746.8	566.2	480.5	413.2	387.2	387.2	390.2
65°	18814.3	13571.7	2001.6	1098.7	785.0	561.6	469.8	405.5	368.8	352.0	353.5
67.5°	17567.2	11935.9	1715.4	1112.5	783.5	540.2	453.0	391.7	350.4	324.4	322.9
69°	16004.8	10298.5	1586.9	1075.8	746.8	512.6	431.5	376.4	336.7	309.1	307.6
70°	14745.4	9299.3	1502.7	1036.0	707.0	492.7	414.7	362.7	325.9	299.9	296.9
72.5°	10720.9	6093.4	1283.9	890.6	583.0	413.2	358.1	318.3	290.7	275.4	272.4
75°	5357.4	2905.9	1042.1	722.3	446.8	330.5	293.8	266.3	252.5	249.4	247.9
77.5°	1759.8	1331.3	745.2	538.6	332.1	258.6	237.2	217.3	214.2	223.4	220.4
80°	967.1	774.3	472.8	356.5	226.5	189.8	186.7	176.0	180.6	195.9	192.8
82.5°	492.7	402.5	292.3	214.2	153.0	136.2	148.4	142.3	148.4	162.2	160.7
85°	243.3	220.4	185.2	130.1	101.0	87.2	105.6	110.2	113.2	123.9	123.9
87.5°	140.8	130.1	97.9	61.2	50.5	45.9	61.2	59.7	70.4	76.5	75.0
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)