

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: P193644

Luminaire Tested: **GLEON-AF-06-LED-E1-SL2-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193644
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-06-LED-E1-SL2-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31219 lumens
Efficiency: N/A
Efficacy: 81.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 382
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

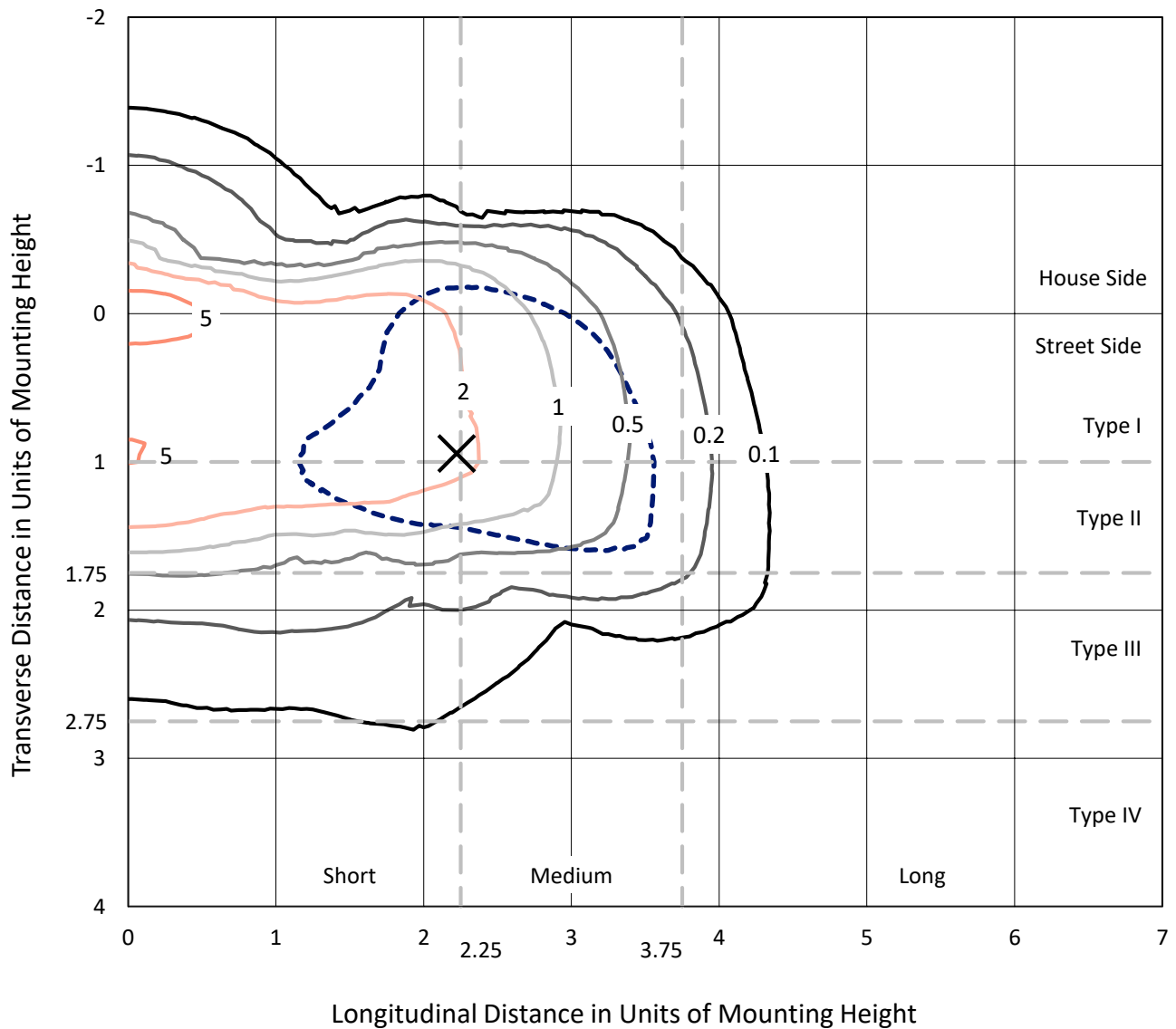


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

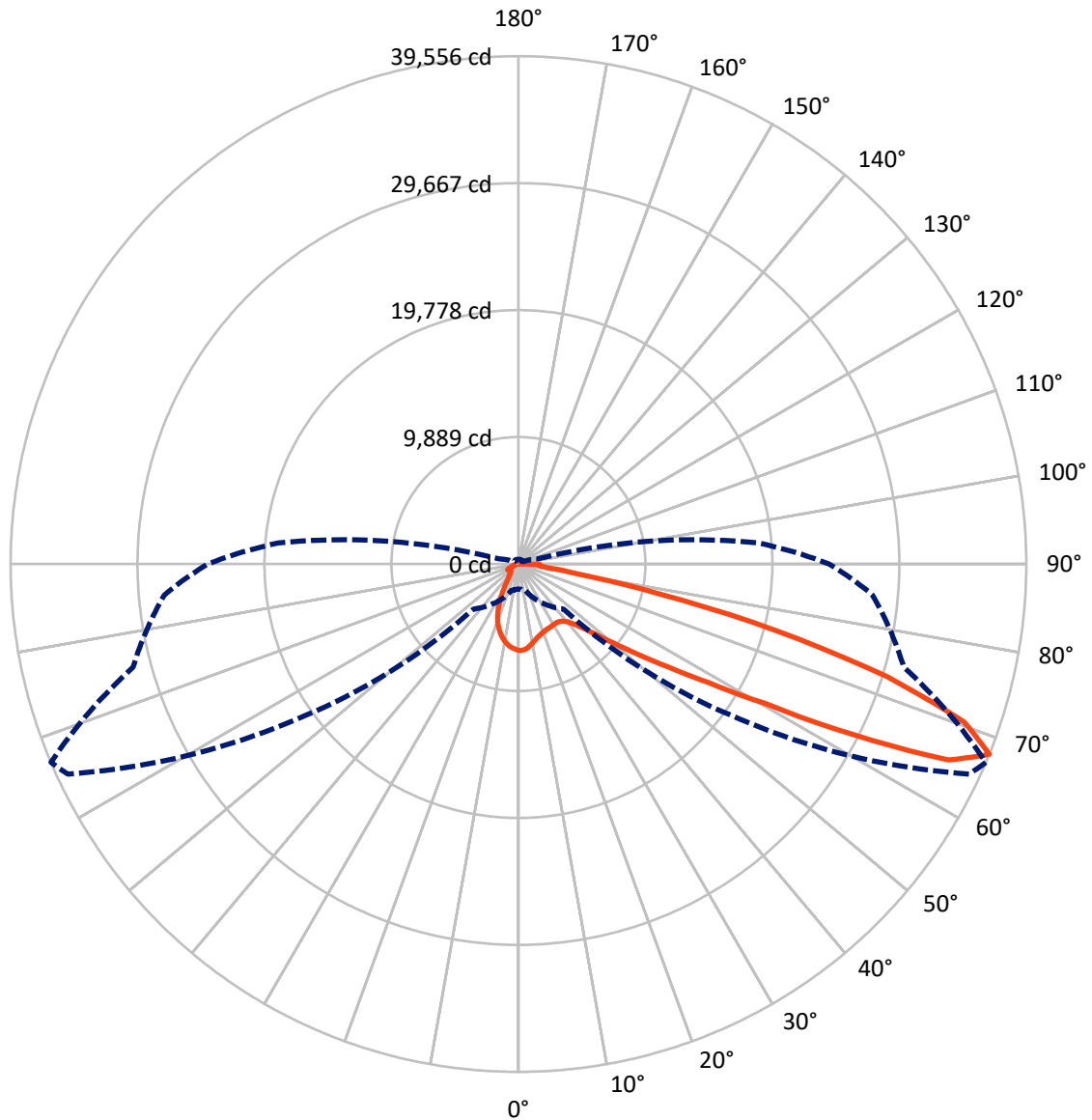


Based on 30 foot mounting height. Maximum calculated value = 7.5 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5172.6	0.0	5172.6
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	26046.4	0.0	26046.4
	% Fixture	83.4	0.0	83.4
Total	Lumens	31219.0	0.0	31219.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	574.5	1.8
10°-20°	1329.3	4.3
20°-30°	1801.9	5.8
30°-40°	2561.6	8.2
40°-50°	4285.6	13.7
50°-60°	6779.8	21.7
60°-70°	8636.8	27.7
70°-80°	4523.9	14.5
80°-90°	725.6	2.3
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°	31219.0	100.0
0°-180°	31219.0	100.0

Coefficient of Utilization



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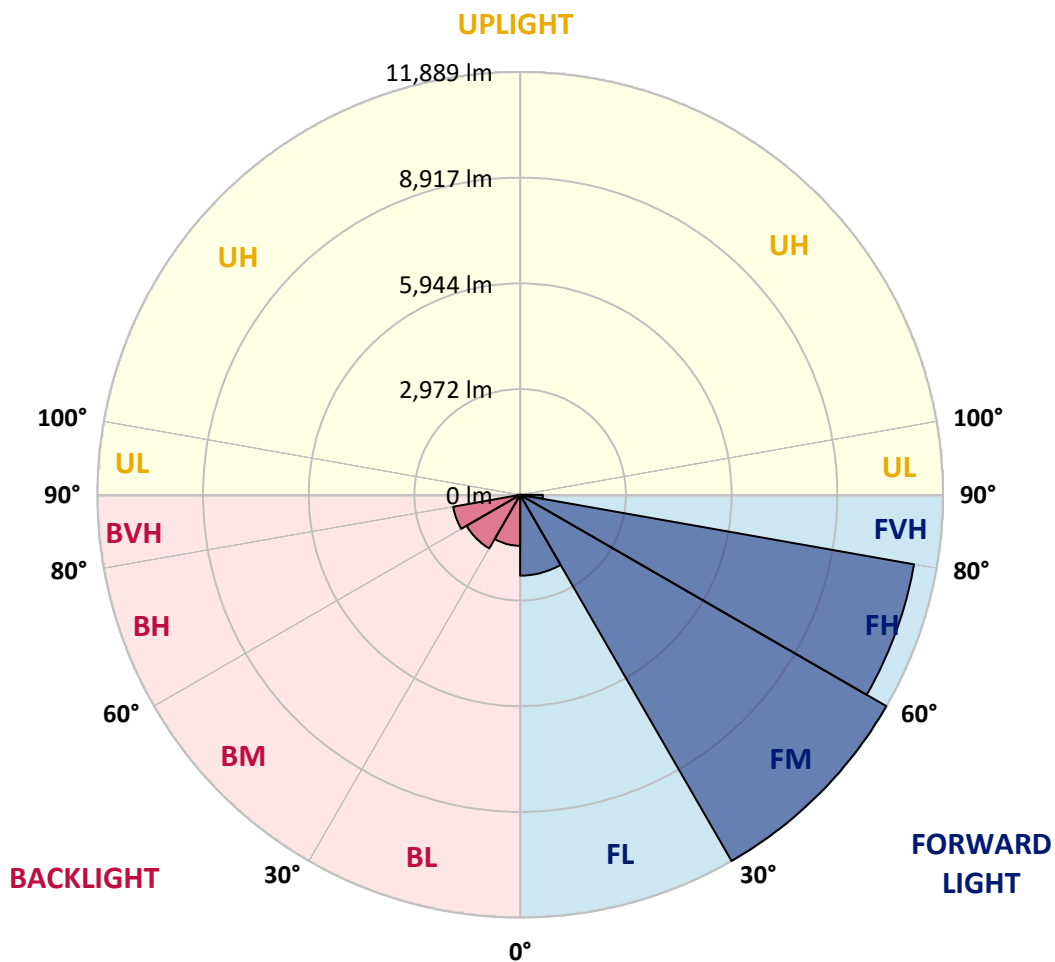
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2272.0	7.3			
FM (30°-60°)	11888.8	38.1			
FH (60°-80°)	11247.6	36.0			G4/12000
FVH (80°-90°)	638.0	2.0			G4/750
BL (0°-30°)	1433.7	4.6	B3/2500		
BM (30°-60°)	1738.2	5.6	B2/2500		
BH (60°-80°)	1913.2	6.1	B3/2500		G3/2500
BVH (80°-90°)	87.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	6733.9	6733.9	6733.9	6733.9	6733.9	6733.9	6733.9	6733.9	6733.9	6733.9	6733.9
2.5°	6456.7	6467.5	6501.4	6522.9	6619.9	6661.5	6690.8	6720.0	6724.6	6738.5	6724.6
5°	5779.4	5802.5	5865.6	5936.4	6124.2	6272.0	6427.5	6589.1	6618.4	6723.1	6752.3
7.5°	5254.4	5248.2	5300.6	5385.2	5577.7	5782.4	6054.9	6376.7	6439.8	6675.4	6789.3
10°	4871.0	4866.4	4921.8	5009.6	5192.8	5386.8	5694.7	6135.0	6224.3	6599.9	6824.7
12.5°	4587.8	4589.3	4644.7	4741.7	4928.0	5123.5	5436.0	5901.0	6014.9	6512.2	6861.6
15°	4399.9	4412.3	4456.9	4560.1	4741.7	4937.2	5243.6	5725.5	5853.3	6442.9	6903.2
17.5°	4336.8	4356.8	4372.2	4447.7	4603.2	4798.7	5098.9	5596.2	5731.6	6395.2	6940.2
20°	4395.3	4418.4	4389.2	4415.3	4513.9	4686.3	4985.0	5494.5	5633.1	6341.3	6944.8
22.5°	4646.3	4667.8	4581.6	4506.2	4500.0	4604.7	4891.1	5414.5	5557.7	6301.3	6946.3
25°	5088.1	5102.0	4957.3	4781.8	4610.9	4575.5	4824.9	5359.1	5511.5	6265.8	6917.1
27.5°	5630.0	5640.8	5474.5	5215.9	4872.6	4644.7	4801.8	5326.7	5485.3	6235.1	6867.8
30°	6288.9	6339.7	6116.5	5790.1	5289.8	4849.5	4847.9	5309.8	5456.1	6182.7	6770.8
32.5°	6963.3	6984.8	6830.9	6499.9	5851.7	5209.7	4977.3	5322.1	5448.4	6119.6	6647.6
35°	7646.8	7674.5	7574.4	7308.1	6619.9	5737.8	5229.8	5394.5	5496.1	6098.0	6561.4
37.5°	8532.0	8569.0	8430.4	8122.5	7554.4	6453.7	5650.0	5576.1	5642.3	6159.6	6535.3
40°	9931.4	9914.5	9509.6	9050.8	8576.7	7369.7	6250.5	5884.0	5922.5	6358.2	6615.3
42.5°	11560.3	11518.7	10821.3	10100.8	9700.5	8478.1	7044.8	6418.3	6410.6	6749.3	6897.1
45°	12859.6	12825.7	12197.6	11309.3	10989.1	9740.5	8071.7	7214.2	7157.2	7369.7	7417.4
47.5°	13563.2	13564.7	13202.9	12477.8	12470.1	11344.7	9391.1	8365.8	8267.2	8367.3	8316.5
50°	13316.9	13349.2	13310.7	13079.8	13821.8	13447.7	11113.8	9971.5	9772.9	9871.4	9675.9
52.5°	12125.3	12166.8	12394.7	12748.8	14389.9	15989.5	13644.8	11966.7	11735.8	11700.4	11483.3
55°	10013.0	10063.8	10528.8	11491.0	13917.3	17696.8	17638.3	14510.0	14142.0	13808.0	13715.6
57.5°	6901.7	6986.3	7734.6	9163.2	12388.5	18212.5	22393.9	18135.5	17387.3	16220.4	16241.9
60°	3890.4	3988.9	4871.0	6168.9	9303.3	17652.1	26011.7	23627.0	22047.5	19045.4	19205.5
62.5°	2474.0	2580.2	3249.9	4286.0	5582.3	14634.7	27494.3	31261.5	29255.5	22527.8	22684.8
65°	2002.9	2049.1	2364.7	3537.8	4053.6	8816.8	26368.9	37550.4	36802.2	26947.8	26215.0
67.5°	1955.2	1970.6	2133.8	2969.7	3887.3	4955.7	21032.9	38726.6	39556.4	31075.2	27685.2
70°	1932.1	1986.0	2404.7	2834.3	3722.6	4179.8	12639.5	35502.9	36813.0	32154.4	25728.5
72.5°	937.6	934.5	1210.1	2563.3	4193.7	4335.3	6493.7	28725.9	30040.7	27857.6	21142.2
75°	755.9	691.2	660.5	939.1	4032.0	4476.9	4138.2	19765.9	20717.3	18677.5	12996.6
77.5°	717.4	640.4	586.6	588.1	1704.2	4747.9	3505.5	10939.8	11216.9	8436.6	3560.9
80°	594.3	523.4	484.9	546.5	825.2	4521.6	3790.3	4951.1	4543.1	2072.2	1185.4
82.5°	412.6	375.6	364.9	458.8	660.5	3222.2	4407.6	2660.3	2230.8	1037.6	731.3
85°	263.3	224.8	249.4	334.1	514.2	1487.2	4540.0	2073.7	1648.8	658.9	412.6
87.5°	121.6	98.5	123.2	184.7	335.6	512.7	4319.9	2329.3	1698.1	347.9	260.2
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°	6733.9	6733.9	6733.9	6733.9	6733.9	6733.9	6733.9	6733.9	6733.9	6733.9	6733.9
2.5°	6736.9	6707.7	6684.6	6641.5	6593.8	6547.6	6506.0	6453.7	6438.3	6424.4	6446.0
5°	6758.5	6729.2	6644.6	6512.2	6365.9	6228.9	6091.9	5974.9	5902.5	5862.5	5885.6
7.5°	6790.8	6749.3	6573.8	6330.5	6067.2	5827.1	5579.2	5380.6	5234.4	5165.1	5185.1
10°	6820.1	6740.0	6453.7	6088.8	5703.9	5346.8	4955.7	4632.4	4392.3	4266.0	4296.8
12.5°	6832.4	6704.6	6285.9	5787.1	5259.0	4735.6	4159.8	3676.4	3331.5	3205.3	3179.1
15°	6844.7	6664.6	6101.1	5443.7	4721.7	3981.2	3174.5	2595.6	2309.3	2246.2	2232.3
17.5°	6847.8	6595.3	5891.7	5071.2	4092.0	3083.7	2170.7	1802.8	1804.3	1905.9	1918.2
20°	6815.5	6492.2	5637.7	4607.8	3337.7	2132.2	1490.3	1427.1	1659.6	1913.6	1944.4
22.5°	6741.6	6355.1	5349.8	4067.4	2474.0	1404.0	1153.1	1222.4	1522.6	1833.6	1869.0
25°	6647.6	6188.9	5009.6	3440.8	1638.0	1003.8	966.8	1051.5	1254.7	1462.5	1482.6
27.5°	6519.9	5991.8	4627.8	2723.4	1063.8	826.7	851.4	908.3	991.5	1083.8	1093.1
30°	6355.1	5756.3	4219.8	1986.0	803.6	743.6	779.0	809.8	845.2	897.5	902.2
32.5°	6165.8	5530.0	3801.1	1371.7	712.8	700.5	728.2	743.6	771.3	803.6	806.7
35°	6007.2	5314.4	3366.9	969.9	674.3	668.2	686.6	692.8	719.0	754.4	757.4
37.5°	5916.4	5138.9	2918.9	782.1	648.1	638.9	649.7	649.7	686.6	739.0	746.7
40°	5922.5	5041.9	2470.9	706.6	626.6	614.3	615.8	615.8	663.5	720.5	725.1
42.5°	6090.3	5066.6	2073.7	677.4	609.7	595.8	588.1	592.7	632.7	669.7	672.8
45°	6484.5	5240.5	1701.2	658.9	592.7	588.1	571.2	569.6	585.0	602.0	602.0
47.5°	7131.1	5583.8	1448.7	646.6	578.9	577.3	557.3	537.3	535.8	541.9	541.9
50°	8182.6	6175.0	1279.3	632.7	569.6	557.3	534.2	503.4	492.6	497.3	497.3
52.5°	9759.0	7229.6	1214.7	614.3	549.6	529.6	503.4	472.6	463.4	464.9	464.9
55°	11826.6	8849.2	1205.4	592.7	528.1	495.7	474.2	451.1	440.3	443.4	443.4
57.5°	14352.9	11089.2	1370.2	558.8	498.8	461.9	449.5	434.1	426.4	431.1	429.5
60°	17424.3	14020.4	2032.2	523.4	469.6	431.1	431.1	418.7	412.6	417.2	415.7
62.5°	20962.1	17387.3	2857.3	497.3	438.8	406.4	412.6	406.4	400.3	403.4	401.8
65°	24099.7	19581.2	2675.7	477.3	408.0	383.3	394.1	391.0	386.4	389.5	388.0
67.5°	24190.5	18768.3	1502.6	455.7	378.7	360.2	375.6	374.1	371.0	374.1	372.6
70°	21588.7	15847.8	846.7	415.7	347.9	332.5	354.1	352.6	349.5	355.6	354.1
72.5°	17296.5	11500.2	618.9	366.4	317.1	303.3	327.9	326.4	326.4	335.6	331.0
75°	9953.0	5917.9	494.2	314.1	284.8	274.0	295.6	297.1	300.2	312.5	303.3
77.5°	2837.3	1844.3	403.4	266.3	244.8	240.2	261.7	264.8	266.3	280.2	267.9
80°	1054.6	849.8	332.5	223.2	200.1	201.7	221.7	226.3	227.8	241.7	226.3
82.5°	672.8	560.4	269.4	172.4	157.0	155.5	180.1	186.3	186.3	187.8	178.6
85°	392.6	335.6	203.2	124.7	110.8	106.2	133.9	144.7	140.1	137.0	130.9
87.5°	263.3	230.9	124.7	69.3	60.0	57.0	78.5	86.2	83.1	78.5	73.9
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)