

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: P191902

Luminaire Tested: **GLEON-AF-04-LED-E1-SL2-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191902
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-04-LED-E1-SL2-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K, 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: 25804 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 258
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

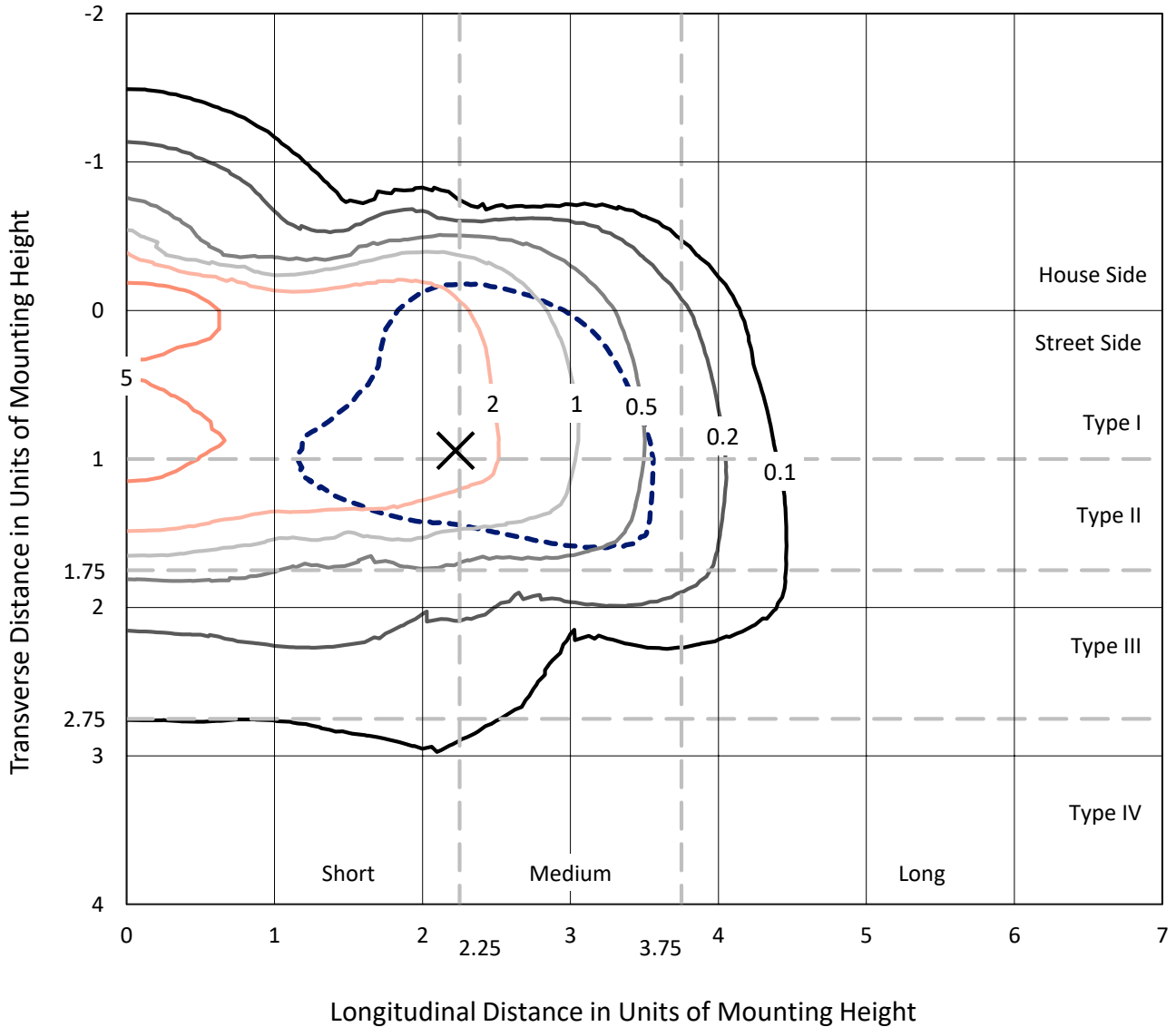


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

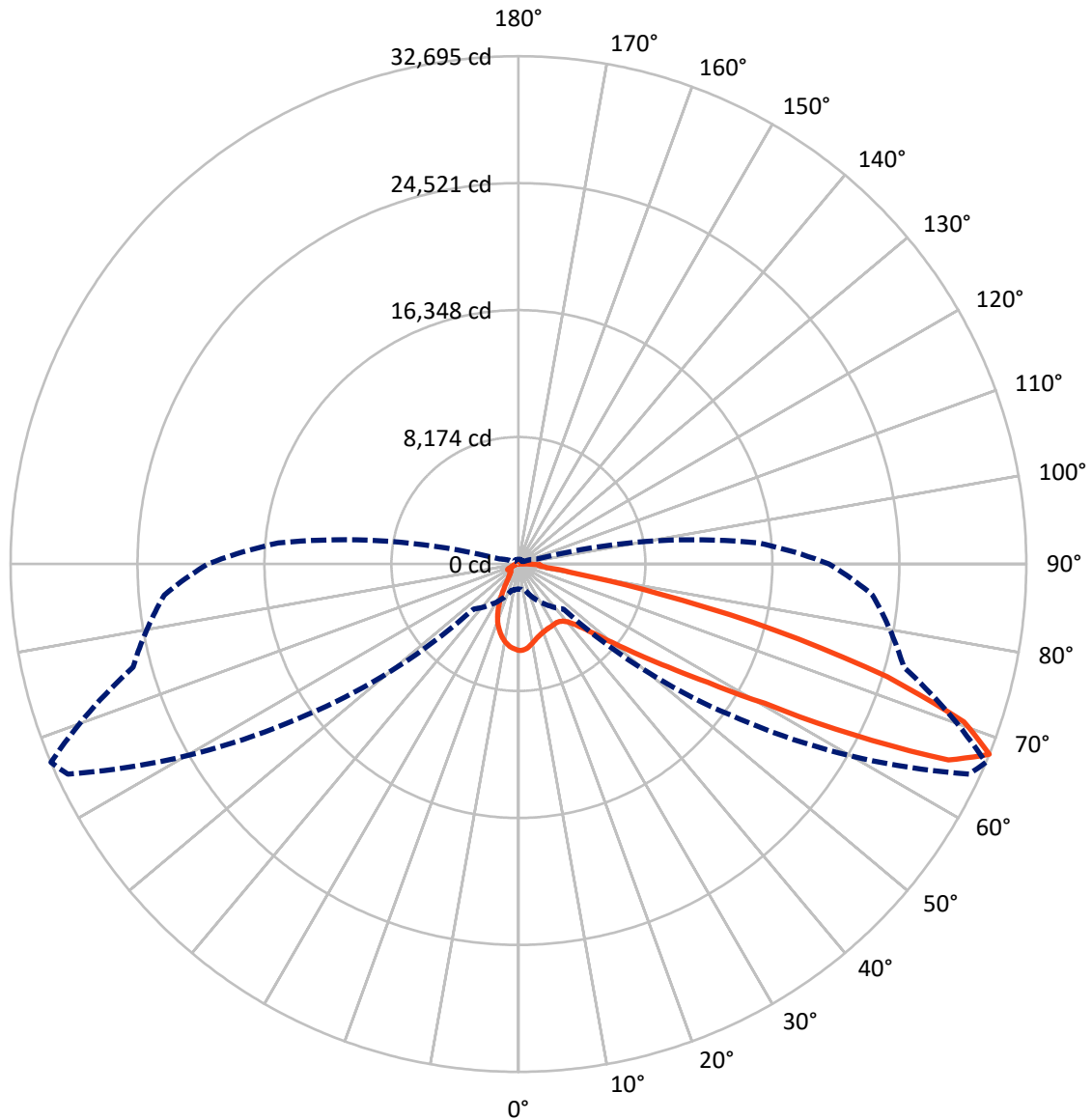


Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type II - Short - Semi-Cutoff

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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	4275.4	0.0	4275.4
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	21528.6	0.0	21528.6
	% Fixture	83.4	0.0	83.4
Total	Lumens	25804.0	0.0	25804.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	474.9	1.8
10°-20°	1098.7	4.3
20°-30°	1489.4	5.8
30°-40°	2117.3	8.2
40°-50°	3542.3	13.7
50°-60°	5603.8	21.7
60°-70°	7138.7	27.7
70°-80°	3739.3	14.5
80°-90°	599.7	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°	25804.0	100.0
0°-180°	25804.0	100.0



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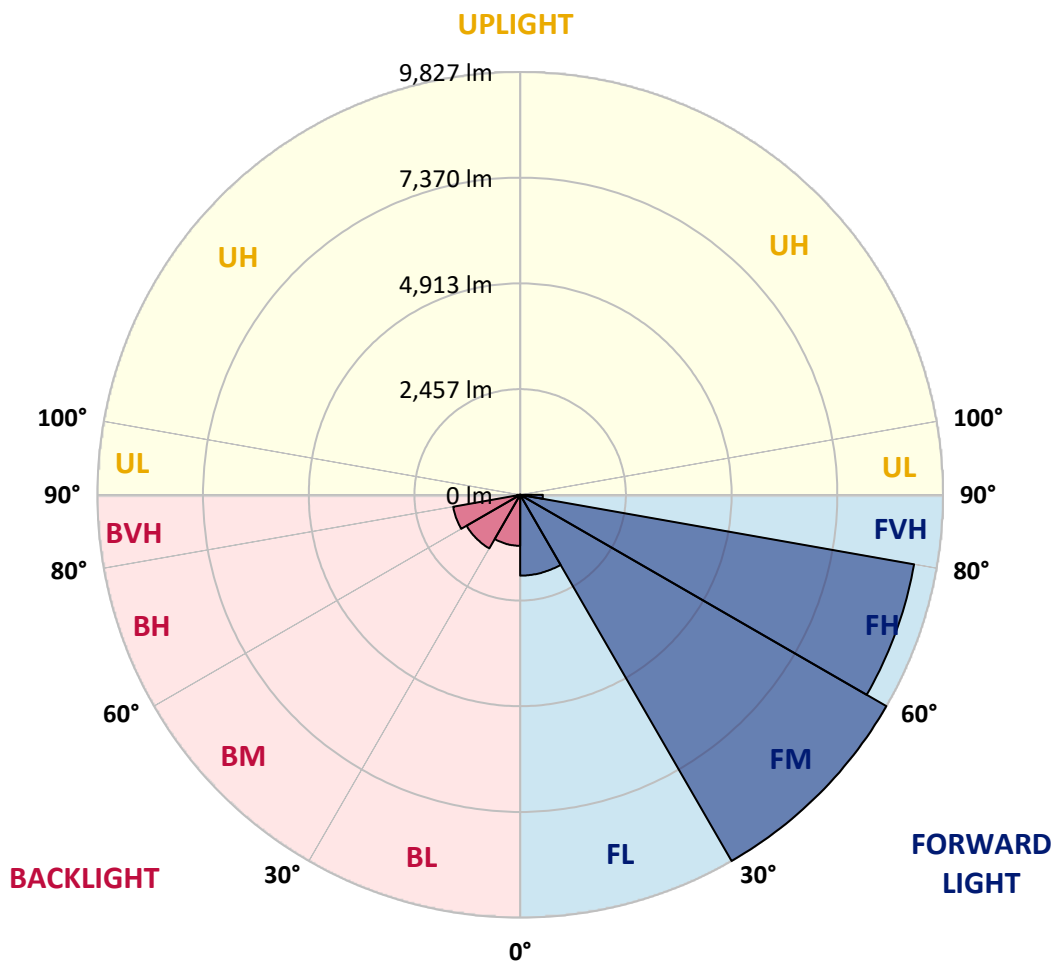
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1877.9	7.3			
FM (30°-60°)	9826.7	38.1			
FH (60°-80°)	9296.6	36.0			G4/12000
FVH (80°-90°)	527.3	2.0			G4/750
BL (0°-30°)	1185.0	4.6	B3/2500		
BM (30°-60°)	1436.7	5.6	B2/2500		
BH (60°-80°)	1581.3	6.1	B3/2500		G3/2500
BVH (80°-90°)	72.4	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°	5565.9	5565.9	5565.9	5565.9	5565.9	5565.9	5565.9	5565.9	5565.9	5565.9	5565.9
2.5°	5336.8	5345.7	5373.7	5391.5	5471.7	5506.1	5530.2	5554.4	5558.2	5569.7	5558.2
5°	4776.9	4796.0	4848.2	4906.7	5062.0	5184.1	5312.6	5446.2	5470.4	5557.0	5581.1
7.5°	4343.0	4337.9	4381.2	4451.2	4610.2	4779.5	5004.7	5270.6	5322.8	5517.5	5611.7
10°	4026.1	4022.3	4068.1	4140.7	4292.1	4452.4	4706.9	5070.9	5144.7	5455.2	5640.9
12.5°	3792.0	3793.3	3839.1	3919.3	4073.2	4234.8	4493.2	4877.4	4971.6	5382.6	5671.5
15°	3636.8	3646.9	3683.9	3769.1	3919.3	4080.9	4334.1	4732.4	4838.0	5325.4	5705.8
17.5°	3584.6	3601.1	3613.9	3676.2	3804.7	3966.3	4214.5	4625.5	4737.5	5285.9	5736.4
20°	3633.0	3652.0	3627.9	3649.5	3730.9	3873.5	4120.3	4541.5	4656.0	5241.4	5740.2
22.5°	3840.4	3858.2	3786.9	3724.6	3719.5	3806.0	4042.7	4475.3	4593.7	5208.3	5741.5
25°	4205.6	4217.0	4097.4	3952.3	3811.1	3781.8	3988.0	4429.5	4555.5	5179.0	5717.3
27.5°	4653.5	4662.4	4525.0	4311.2	4027.4	3839.1	3968.9	4402.8	4533.9	5153.6	5676.6
30°	5198.1	5240.1	5055.6	4785.8	4372.3	4008.3	4007.1	4388.8	4509.7	5110.3	5596.4
32.5°	5755.5	5773.3	5646.0	5372.4	4836.7	4306.1	4114.0	4399.0	4503.3	5058.1	5494.6
35°	6320.4	6343.3	6260.6	6040.5	5471.7	4742.6	4322.6	4458.8	4542.8	5040.3	5423.3
37.5°	7052.1	7082.7	6968.1	6713.6	6244.1	5334.3	4670.0	4608.9	4663.7	5091.2	5401.7
40°	8208.8	8194.8	7860.2	7481.0	7089.0	6091.4	5166.3	4863.4	4895.3	5255.4	5467.9
42.5°	9555.1	9520.8	8944.3	8348.8	8017.9	7007.6	5822.9	5305.0	5298.6	5578.6	5700.7
45°	10629.1	10601.1	10081.9	9347.7	9083.0	8051.0	6671.7	5962.9	5915.8	6091.4	6130.8
47.5°	11210.6	11211.9	10912.9	10313.5	10307.1	9377.0	7762.2	6914.7	6833.3	6916.0	6874.0
50°	11007.0	11033.7	11001.9	10811.1	11424.4	11115.2	9186.1	8241.9	8077.7	8159.2	7997.6
52.5°	10022.1	10056.5	10244.8	10537.5	11893.9	13216.1	11278.1	9891.0	9700.2	9670.9	9491.5
55°	8276.3	8318.2	8702.5	9497.8	11503.3	14627.2	14578.9	11993.2	11689.1	11412.9	11336.6
57.5°	5704.6	5774.5	6393.0	7573.8	10239.7	15053.5	18509.6	14989.9	14371.5	13406.9	13424.7
60°	3215.6	3297.0	4026.1	5098.9	7689.6	14590.3	21499.9	19528.9	18223.3	15741.9	15874.3
62.5°	2044.9	2132.7	2686.2	3542.6	4614.0	12096.3	22725.4	25839.1	24181.1	18620.3	18750.1
65°	1655.5	1693.7	1954.5	2924.2	3350.5	7287.5	21795.2	31037.2	30418.8	22273.6	21667.9
67.5°	1616.1	1628.8	1763.7	2454.6	3213.0	4096.1	17384.7	32009.4	32695.3	25685.2	22883.1
70°	1597.0	1641.5	1987.6	2342.6	3076.9	3454.8	10447.1	29344.8	30427.7	26577.2	21265.8
72.5°	774.9	772.4	1000.2	2118.7	3466.3	3583.3	5367.4	23743.3	24830.0	23025.7	17475.1
75°	624.8	571.3	545.9	776.2	3332.6	3700.4	3420.4	16337.5	17123.9	15437.8	10742.3
77.5°	593.0	529.4	484.8	486.1	1408.6	3924.4	2897.5	9042.3	9271.3	6973.2	2943.3
80°	491.2	432.6	400.8	451.7	682.1	3737.3	3132.9	4092.3	3755.1	1712.8	979.8
82.5°	341.0	310.5	301.6	379.2	545.9	2663.3	3643.1	2198.9	1843.8	857.7	604.4
85°	217.6	185.8	206.1	276.1	425.0	1229.2	3752.6	1714.0	1362.8	544.6	341.0
87.5°	100.5	81.4	101.8	152.7	277.4	423.7	3570.6	1925.3	1403.6	287.6	215.1
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°	5565.9	5565.9	5565.9	5565.9	5565.9	5565.9	5565.9	5565.9	5565.9	5565.9	5565.9
2.5°	5568.4	5544.2	5525.1	5489.5	5450.1	5411.9	5377.5	5334.3	5321.5	5310.1	5327.9
5°	5586.2	5562.0	5492.1	5382.6	5261.7	5148.5	5035.2	4938.5	4878.7	4845.6	4864.7
7.5°	5612.9	5578.6	5433.5	5232.5	5014.9	4816.4	4611.5	4447.3	4326.5	4269.2	4285.7
10°	5637.1	5570.9	5334.3	5032.7	4714.6	4419.3	4096.1	3828.9	3630.4	3526.1	3551.5
12.5°	5647.3	5541.7	5195.6	4783.3	4346.8	3914.2	3438.3	3038.7	2753.7	2649.3	2627.7
15°	5657.5	5508.6	5042.9	4499.5	3902.7	3290.7	2623.9	2145.4	1908.7	1856.6	1845.1
17.5°	5660.0	5451.3	4869.8	4191.6	3382.3	2548.8	1794.2	1490.1	1491.4	1575.3	1585.5
20°	5633.3	5366.1	4659.8	3808.6	2758.8	1762.4	1231.8	1179.6	1371.7	1581.7	1607.2
22.5°	5572.2	5252.8	4421.9	3361.9	2044.9	1160.5	953.1	1010.4	1258.5	1515.5	1544.8
25°	5494.6	5115.4	4140.7	2844.0	1353.9	829.7	799.1	869.1	1037.1	1208.9	1225.4
27.5°	5389.0	4952.5	3825.1	2251.0	879.3	683.3	703.7	750.8	819.5	895.8	903.5
30°	5252.8	4757.8	3487.9	1641.5	664.2	614.6	643.9	669.3	698.6	741.9	745.7
32.5°	5096.3	4570.8	3141.8	1133.8	589.2	579.0	601.9	614.6	637.5	664.2	666.8
35°	4965.2	4392.6	2782.9	801.7	557.3	552.3	567.5	572.6	594.3	623.5	626.1
37.5°	4890.2	4247.6	2412.6	646.4	535.7	528.1	537.0	537.0	567.5	610.8	617.2
40°	4895.3	4167.4	2042.3	584.1	517.9	507.7	509.0	509.0	548.4	595.5	599.3
42.5°	5034.0	4187.8	1714.0	559.9	503.9	492.5	486.1	489.9	523.0	553.5	556.1
45°	5359.7	4331.5	1406.1	544.6	489.9	486.1	472.1	470.8	483.5	497.5	497.5
47.5°	5894.2	4615.3	1197.4	534.4	478.5	477.2	460.6	444.1	442.8	447.9	447.9
50°	6763.3	5103.9	1057.4	523.0	470.8	460.6	441.6	416.1	407.2	411.0	411.0
52.5°	8066.3	5975.6	1004.0	507.7	454.3	437.7	416.1	390.7	383.0	384.3	384.3
55°	9775.2	7314.3	996.4	489.9	436.5	409.7	391.9	372.8	363.9	366.5	366.5
57.5°	11863.4	9165.7	1132.5	461.9	412.3	381.7	371.6	358.8	352.5	356.3	355.0
60°	14402.0	11588.5	1679.7	432.6	388.1	356.3	356.3	346.1	341.0	344.8	343.6
62.5°	17326.2	14371.5	2361.7	411.0	362.7	335.9	341.0	335.9	330.8	333.4	332.1
65°	19919.5	16184.8	2211.6	394.5	337.2	316.8	325.8	323.2	319.4	321.9	320.7
67.5°	19994.6	15512.9	1241.9	376.7	313.0	297.8	310.5	309.2	306.7	309.2	307.9
70°	17844.1	13099.0	699.9	343.6	287.6	274.9	292.7	291.4	288.9	293.9	292.7
72.5°	14296.4	9505.5	511.5	302.9	262.1	250.7	271.0	269.8	269.8	277.4	273.6
75°	8226.6	4891.4	408.5	259.6	235.4	226.5	244.3	245.6	248.1	258.3	250.7
77.5°	2345.2	1524.4	333.4	220.1	202.3	198.5	216.3	218.9	220.1	231.6	221.4
80°	871.7	702.4	274.9	184.5	165.4	166.7	183.2	187.1	188.3	199.8	187.1
82.5°	556.1	463.2	222.7	142.5	129.8	128.5	148.9	154.0	154.0	155.2	147.6
85°	324.5	277.4	168.0	103.1	91.6	87.8	110.7	119.6	115.8	113.3	108.2
87.5°	217.6	190.9	103.1	57.3	49.6	47.1	64.9	71.3	68.7	64.9	61.1
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)