

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: P191874

Luminaire Tested: **GLEON-AF-06-LED-E1-SL2-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191874
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-SL2-7050-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K, 615mA 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: 22979 lumens
Efficiency: N/A
Efficacy: 119.1 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): 193
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

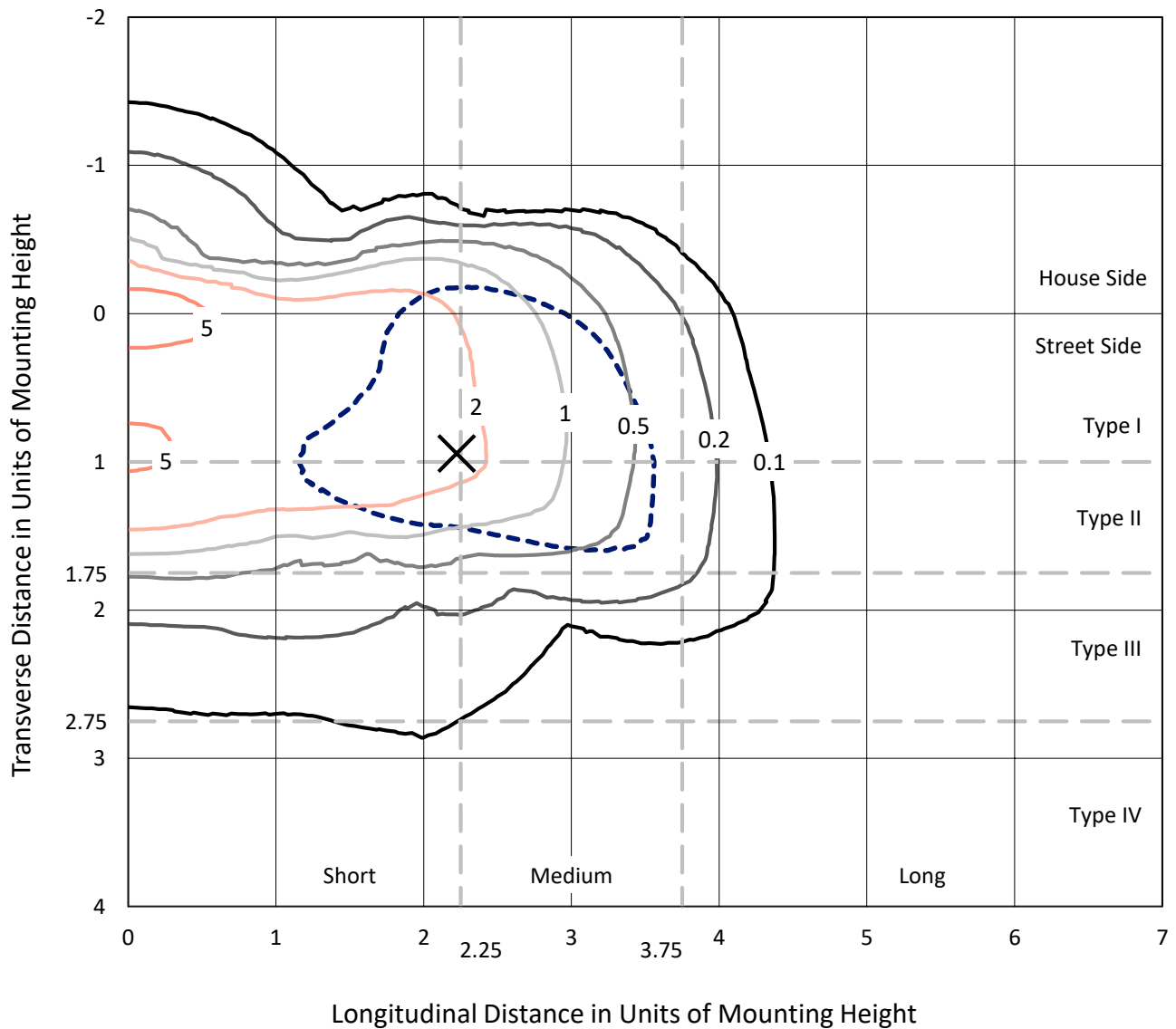


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Iso-Footcandle Lines of Horizontal Illumination

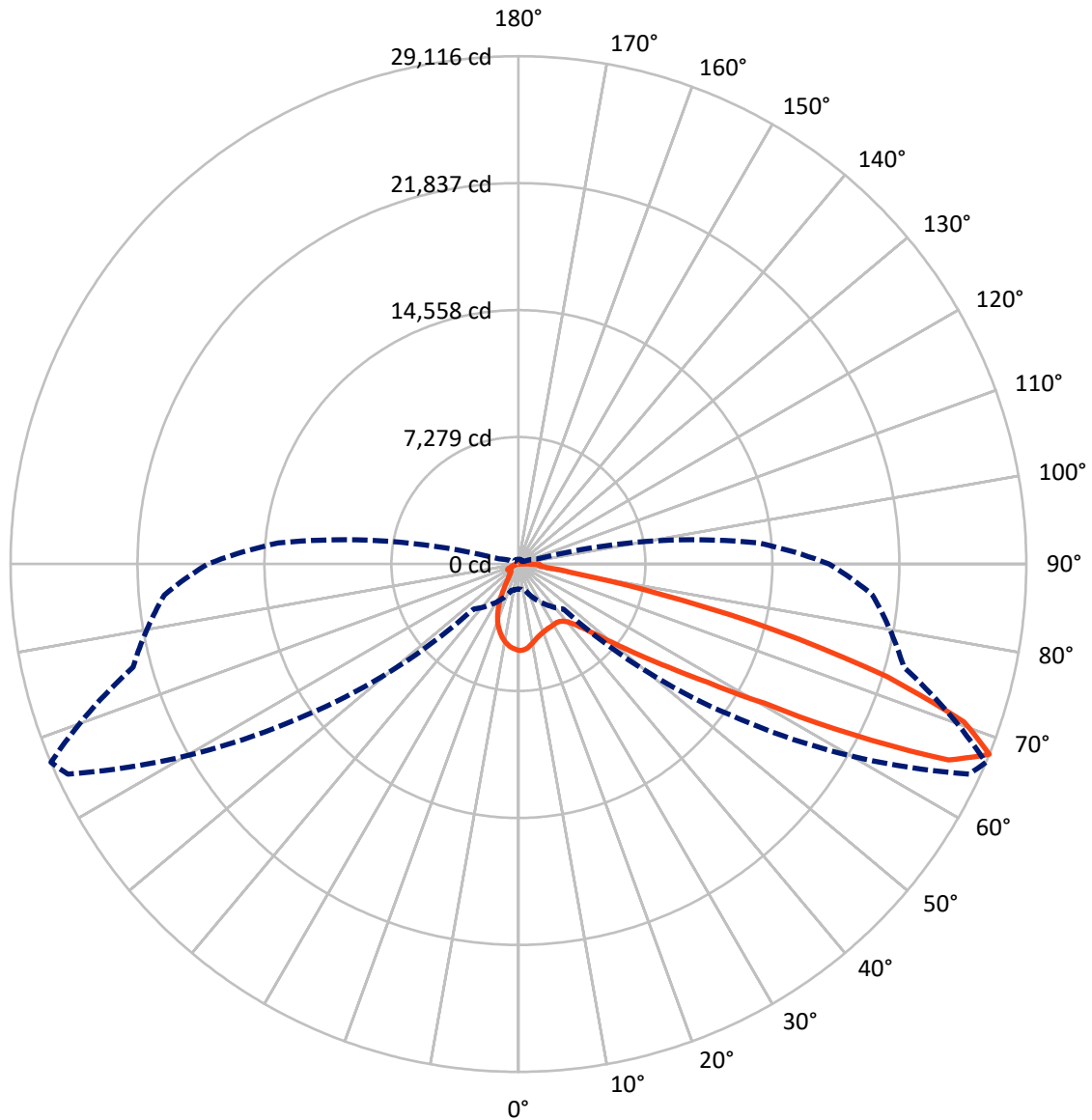
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 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	3807.4	0.0	3807.4
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	19171.6	0.0	19171.6
	% Fixture	83.4	0.0	83.4
Total	Lumens	22979.0	0.0	22979.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	422.9	1.8
10°-20°	978.4	4.3
20°-30°	1326.3	5.8
30°-40°	1885.5	8.2
40°-50°	3154.5	13.7
50°-60°	4990.3	21.7
60°-70°	6357.2	27.7
70°-80°	3329.9	14.5
80°-90°	534.1	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°	22979.0	100.0
0°-180°	22979.0	100.0

Coefficient of Utilization



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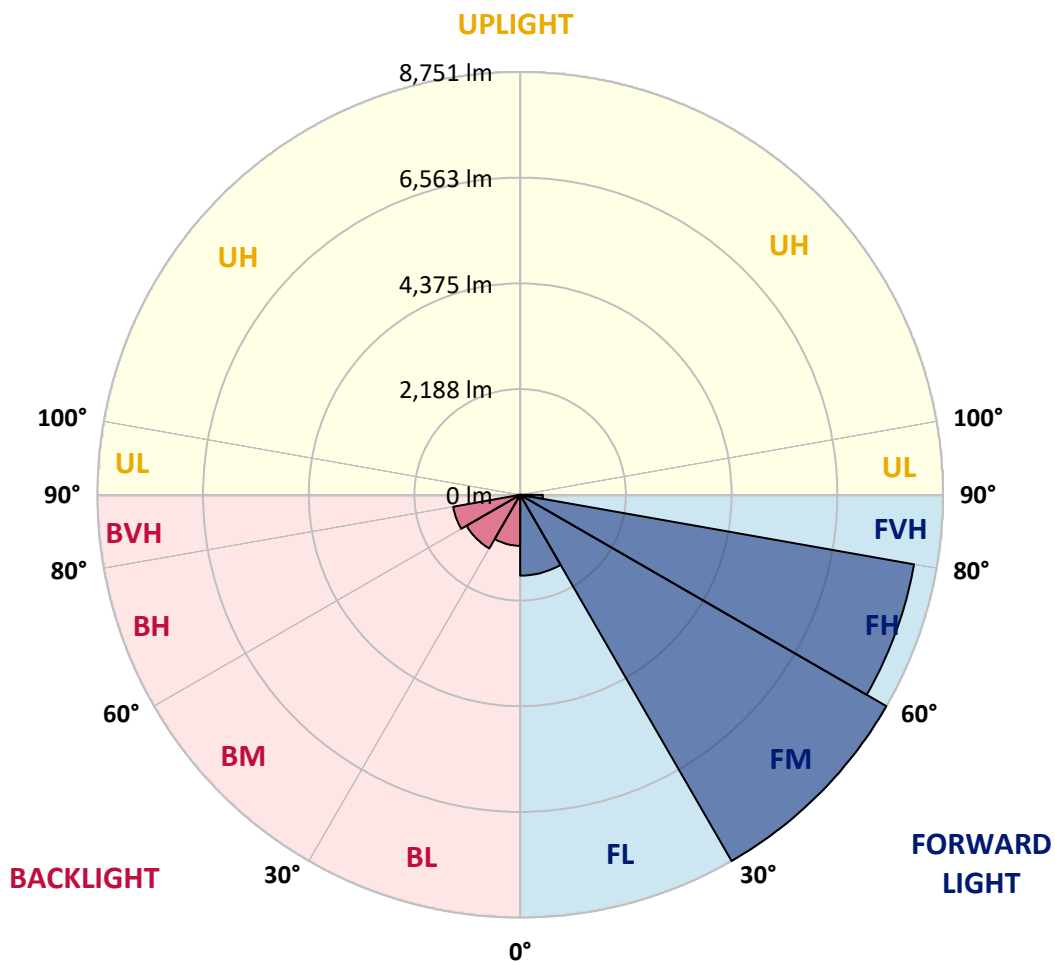
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1672.3	7.3			
FM (30°-60°)	8750.9	38.1			
FH (60°-80°)	8278.9	36.0			G4/12000
FVH (80°-90°)	469.6	2.0			G3/500
BL (0°-30°)	1055.3	4.6	B3/2500		
BM (30°-60°)	1279.4	5.6	B2/2500		
BH (60°-80°)	1408.2	6.1	B3/2500		G3/2500
BVH (80°-90°)	64.5	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°	4956.5	4956.5	4956.5	4956.5	4956.5	4956.5	4956.5	4956.5	4956.5	4956.5	4956.5
2.5°	4752.5	4760.5	4785.4	4801.3	4872.7	4903.3	4924.8	4946.3	4949.7	4959.9	4949.7
5°	4253.9	4270.9	4317.4	4369.5	4507.8	4616.6	4731.0	4850.0	4871.5	4948.6	4970.1
7.5°	3867.5	3863.0	3901.5	3963.9	4105.5	4256.2	4456.8	4693.6	4740.1	4913.5	4997.3
10°	3585.4	3582.0	3622.8	3687.4	3822.2	3965.0	4191.6	4515.7	4581.4	4857.9	5023.4
12.5°	3376.9	3378.0	3418.8	3490.2	3627.3	3771.2	4001.2	4343.5	4427.3	4793.3	5050.6
15°	3238.6	3247.7	3280.5	3356.5	3490.2	3634.1	3859.6	4214.3	4308.3	4742.3	5081.2
17.5°	3192.2	3206.9	3218.2	3273.7	3388.2	3532.1	3753.1	4119.1	4218.8	4707.2	5108.4
20°	3235.2	3252.2	3230.7	3250.0	3322.5	3449.4	3669.2	4044.3	4146.3	4667.6	5111.8
22.5°	3419.9	3435.8	3372.3	3316.8	3312.3	3389.3	3600.1	3985.4	4090.8	4638.1	5112.9
25°	3745.1	3755.3	3648.8	3519.6	3393.9	3367.8	3551.4	3944.6	4056.8	4612.0	5091.4
27.5°	4144.0	4152.0	4029.6	3839.2	3586.5	3418.8	3534.4	3920.8	4037.5	4589.4	5055.1
30°	4629.0	4666.4	4502.1	4261.9	3893.6	3569.5	3568.4	3908.3	4016.0	4550.8	4983.7
32.5°	5125.4	5141.2	5027.9	4784.3	4307.2	3834.7	3663.6	3917.4	4010.3	4504.4	4893.1
35°	5628.5	5648.9	5575.2	5379.2	4872.7	4223.3	3849.4	3970.7	4045.4	4488.5	4829.6
37.5°	6280.1	6307.3	6205.3	5978.6	5560.5	4750.3	4158.8	4104.4	4153.1	4533.8	4810.3
40°	7310.1	7297.7	6999.6	6661.9	6312.9	5424.5	4600.7	4331.0	4359.3	4680.0	4869.3
42.5°	8509.0	8478.4	7965.1	7434.8	7140.1	6240.4	5185.4	4724.2	4718.5	4967.8	5076.6
45°	9465.4	9440.5	8978.2	8324.3	8088.6	7169.6	5941.2	5310.1	5268.1	5424.5	5459.6
47.5°	9983.3	9984.4	9718.1	9184.4	9178.7	8350.4	6912.4	6157.7	6085.2	6158.8	6121.4
50°	9802.0	9825.8	9797.4	9627.5	10173.7	9898.3	8180.4	7339.6	7193.4	7265.9	7122.0
52.5°	8924.9	8955.5	9123.2	9383.8	10591.8	11769.2	10043.3	8808.2	8638.2	8612.1	8452.4
55°	7370.2	7407.6	7749.8	8458.0	10243.9	13025.9	12982.8	10680.2	10409.4	10163.5	10095.5
57.5°	5080.0	5142.4	5693.1	6744.7	9118.7	13405.5	16483.2	13348.8	12798.1	11939.1	11955.0
60°	2863.5	2936.1	3585.4	4540.6	6847.8	12993.0	19146.2	17390.9	16228.2	14018.5	14136.4
62.5°	1821.0	1899.2	2392.1	3154.8	4108.9	10772.0	20237.4	23010.3	21533.8	16581.8	16697.4
65°	1474.3	1508.3	1740.6	2604.0	2983.7	6489.7	19409.0	27639.3	27088.6	19835.1	19295.7
67.5°	1439.1	1450.5	1570.6	2185.9	2861.3	3647.7	15481.5	28505.1	29115.8	22873.2	20377.9
70°	1422.1	1461.8	1770.0	2086.2	2740.0	3076.6	9303.4	26132.2	27096.5	23667.5	18937.6
72.5°	690.1	687.8	890.7	1886.7	3086.8	3191.0	4779.7	21143.9	22111.7	20504.8	15561.9
75°	556.4	508.8	486.1	691.2	2967.8	3295.3	3046.0	14548.9	15249.2	13747.7	9566.3
77.5°	528.1	471.4	431.7	432.9	1254.4	3494.7	2580.2	8052.4	8256.3	6209.8	2621.0
80°	437.4	385.3	357.0	402.3	607.4	3328.1	2789.9	3644.3	3344.0	1525.3	872.5
82.5°	303.7	276.5	268.6	337.7	486.1	2371.7	3244.3	1958.1	1642.0	763.8	538.3
85°	193.8	165.4	183.6	245.9	378.5	1094.6	3341.7	1526.4	1213.6	485.0	303.7
87.5°	89.5	72.5	90.7	136.0	247.0	377.3	3179.7	1714.5	1249.9	256.1	191.5
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°	4956.5	4956.5	4956.5	4956.5	4956.5	4956.5	4956.5	4956.5	4956.5	4956.5	4956.5
2.5°	4958.8	4937.3	4920.3	4888.5	4853.4	4819.4	4788.8	4750.3	4738.9	4728.7	4744.6
5°	4974.6	4953.1	4890.8	4793.3	4685.7	4584.8	4484.0	4397.9	4344.6	4315.1	4332.1
7.5°	4998.4	4967.8	4838.7	4659.6	4465.8	4289.1	4106.6	3960.5	3852.8	3801.8	3816.5
10°	5020.0	4961.0	4750.3	4481.7	4198.4	3935.5	3647.7	3409.7	3233.0	3140.0	3162.7
12.5°	5029.0	4935.0	4626.8	4259.6	3870.9	3485.7	3061.8	2706.0	2452.2	2359.3	2340.0
15°	5038.1	4905.5	4490.8	4006.9	3475.5	2930.4	2336.6	1910.5	1699.8	1653.3	1643.1
17.5°	5040.4	4854.5	4336.7	3732.7	3012.0	2269.8	1597.8	1326.9	1328.1	1402.9	1411.9
20°	5016.6	4778.6	4149.7	3391.6	2456.7	1569.4	1096.9	1050.5	1221.6	1408.5	1431.2
22.5°	4962.2	4677.8	3937.8	2993.9	1821.0	1033.5	848.7	899.7	1120.7	1349.6	1375.7
25°	4893.1	4555.4	3687.4	2532.6	1205.7	738.8	711.6	774.0	923.5	1076.5	1091.2
27.5°	4799.0	4410.3	3406.3	2004.6	783.0	608.5	626.6	668.6	729.8	797.8	804.6
30°	4677.8	4236.9	3106.0	1461.8	591.5	547.3	573.4	596.1	622.1	660.6	664.0
32.5°	4538.4	4070.4	2797.8	1009.7	524.7	515.6	536.0	547.3	567.7	591.5	593.8
35°	4421.7	3911.7	2478.3	713.9	496.3	491.8	505.4	509.9	529.2	555.3	557.5
37.5°	4354.8	3782.5	2148.5	575.7	477.1	470.3	478.2	478.2	505.4	543.9	549.6
40°	4359.3	3711.2	1818.7	520.1	461.2	452.1	453.3	453.3	488.4	530.3	533.7
42.5°	4482.8	3729.3	1526.4	498.6	448.7	438.5	432.9	436.3	465.7	492.9	495.2
45°	4772.9	3857.3	1252.2	485.0	436.3	432.9	420.4	419.3	430.6	443.1	443.1
47.5°	5248.9	4110.0	1066.3	475.9	426.1	424.9	410.2	395.5	394.3	398.9	398.9
50°	6022.8	4545.2	941.7	465.7	419.3	410.2	393.2	370.5	362.6	366.0	366.0
52.5°	7183.2	5321.4	894.1	452.1	404.5	389.8	370.5	347.9	341.1	342.2	342.2
55°	8705.1	6513.5	887.3	436.3	388.7	364.9	349.0	332.0	324.1	326.4	326.4
57.5°	10564.6	8162.3	1008.5	411.3	367.1	340.0	330.9	319.6	313.9	317.3	316.2
60°	12825.3	10319.8	1495.8	385.3	345.6	317.3	317.3	308.2	303.7	307.1	306.0
62.5°	15429.3	12798.1	2103.2	366.0	323.0	299.2	303.7	299.2	294.6	296.9	295.8
65°	17738.7	14412.9	1969.5	351.3	300.3	282.2	290.1	287.8	284.4	286.7	285.6
67.5°	17805.6	13814.6	1106.0	335.4	278.8	265.2	276.5	275.4	273.1	275.4	274.2
70°	15890.5	11664.9	623.2	306.0	256.1	244.8	260.6	259.5	257.2	261.8	260.6
72.5°	12731.2	8464.8	455.5	269.7	233.4	223.2	241.4	240.2	240.2	247.0	243.6
75°	7326.0	4355.9	363.7	231.2	209.6	201.7	217.6	218.7	221.0	230.0	223.2
77.5°	2088.4	1357.5	296.9	196.0	180.2	176.8	192.6	194.9	196.0	206.2	197.2
80°	776.2	625.5	244.8	164.3	147.3	148.4	163.2	166.6	167.7	177.9	166.6
82.5°	495.2	412.5	198.3	126.9	115.6	114.5	132.6	137.1	137.1	138.2	131.4
85°	289.0	247.0	149.6	91.8	81.6	78.2	98.6	106.5	103.1	100.9	96.3
87.5°	193.8	170.0	91.8	51.0	44.2	41.9	57.8	63.5	61.2	57.8	54.4
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)