

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: P269308

Luminaire Tested: **GLEON-AF-05-LED-E1-SL2-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269308
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-05-LED-E1-SL2-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 800mA 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: 20458 lumens
Efficiency: N/A
Efficacy: 97.4 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 - G3

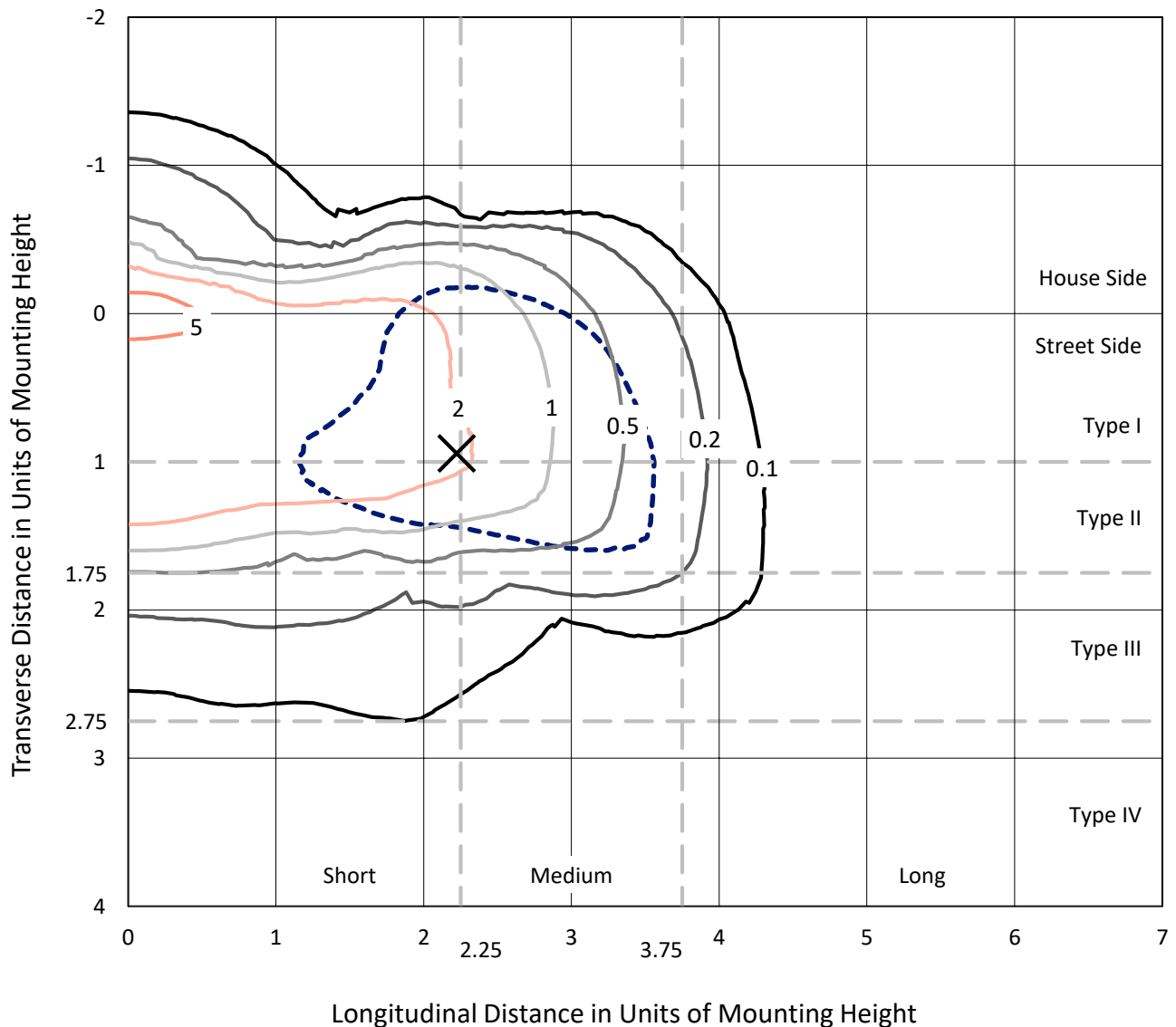
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

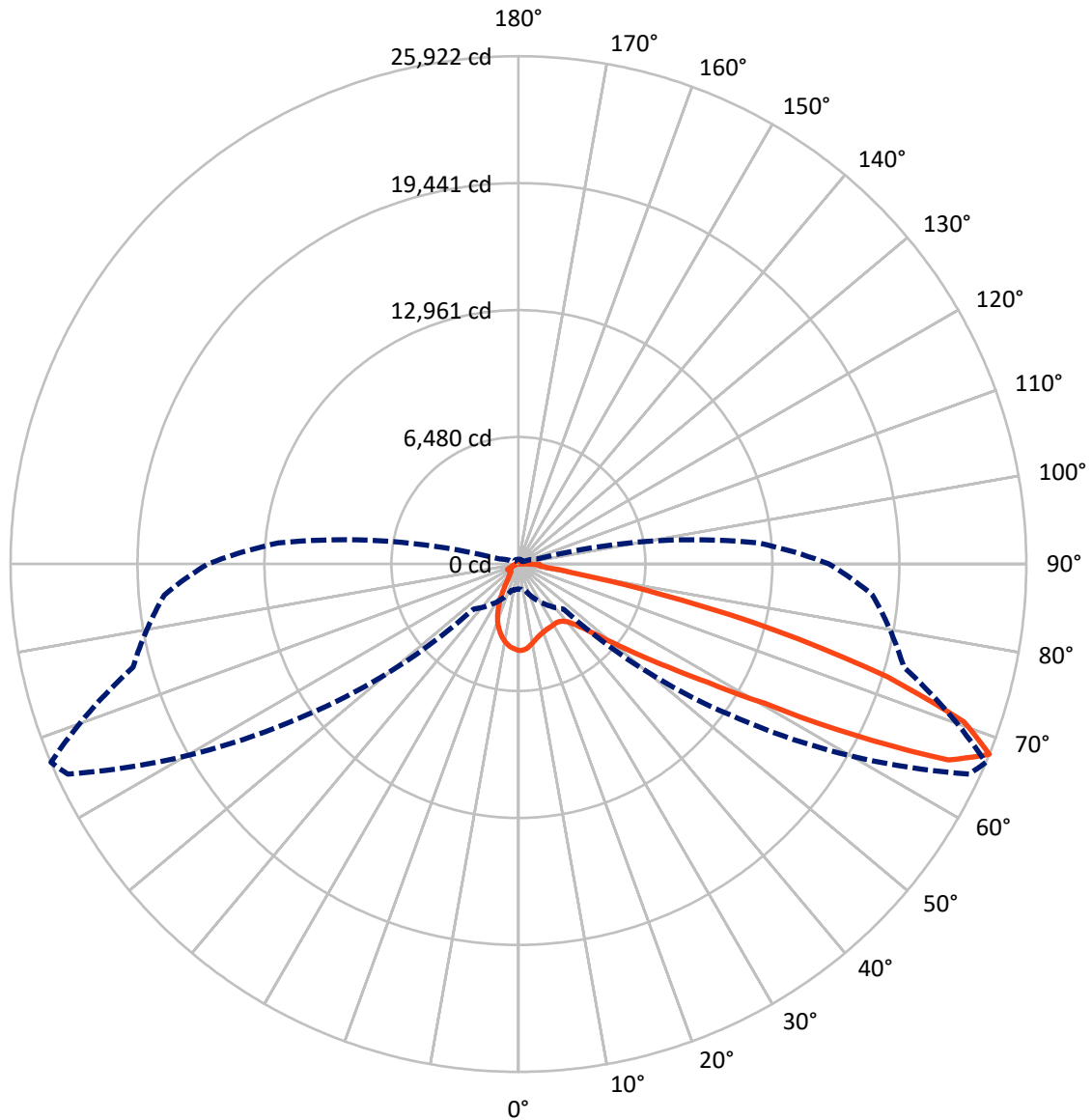
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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	3389.6	0.0	3389.6
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	17068.3	0.0	17068.3
	% Fixture	83.4	0.0	83.4
Total	Lumens	20458.0	0.0	20458.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	376.5	1.8
10°-20°	871.1	4.3
20°-30°	1180.8	5.8
30°-40°	1678.6	8.2
40°-50°	2808.4	13.7
50°-60°	4442.8	21.7
60°-70°	5659.7	27.7
70°-80°	2964.6	14.5
80°-90°	475.5	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°	20458.0	100.0
0°-180°	20458.0	100.0

Coefficient of Utilization



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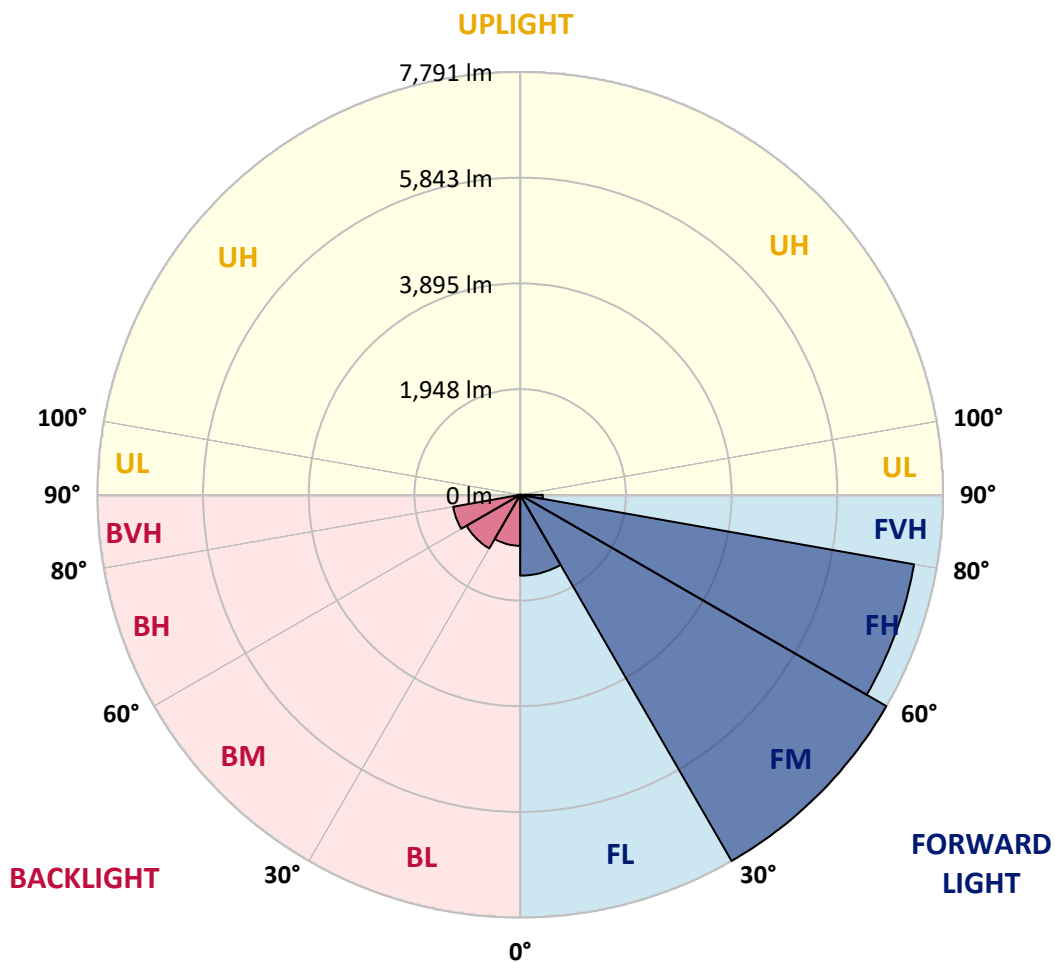
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1488.8	7.3			
FM (30°-60°)	7790.8	38.1			
FH (60°-80°)	7370.6	36.0			G3/7500
FVH (80°-90°)	418.1	2.0			G3/500
BL (0°-30°)	939.5	4.6	B2/1000		
BM (30°-60°)	1139.0	5.6	B2/2500		
BH (60°-80°)	1253.7	6.1	B3/2500		G3/2500
BVH (80°-90°)	57.4	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	4412.7	4412.7	4412.7	4412.7	4412.7	4412.7	4412.7	4412.7	4412.7	4412.7	4412.7
2.5°	4231.1	4238.3	4260.4	4274.6	4338.1	4365.4	4384.4	4403.6	4406.6	4415.8	4406.6
5°	3787.3	3802.3	3843.8	3890.2	4013.3	4110.0	4212.0	4318.0	4337.0	4405.6	4424.8
7.5°	3443.3	3439.3	3473.4	3529.0	3655.2	3789.3	3967.9	4178.6	4220.1	4374.3	4449.0
10°	3192.0	3189.1	3225.4	3282.9	3402.9	3530.0	3731.7	4020.3	4078.8	4325.0	4472.2
12.5°	3006.4	3007.3	3043.7	3107.2	3229.3	3357.4	3562.3	3866.9	3941.7	4267.5	4496.5
15°	2883.3	2891.4	2920.6	2988.2	3107.2	3235.3	3436.1	3752.0	3835.7	4222.0	4523.8
17.5°	2842.0	2855.1	2865.1	2914.6	3016.5	3144.5	3341.3	3667.2	3756.0	4190.9	4547.8
20°	2880.2	2895.4	2876.3	2893.4	2957.9	3070.9	3266.6	3600.5	3691.4	4155.5	4551.0
22.5°	3044.7	3058.9	3002.3	2952.9	2948.9	3017.4	3205.2	3548.1	3642.0	4129.2	4551.9
25°	3334.2	3343.3	3248.5	3133.5	3021.4	2998.4	3161.8	3511.8	3611.7	4106.1	4532.8
27.5°	3689.3	3696.4	3587.6	3418.1	3193.0	3043.7	3146.7	3490.6	3594.6	4085.9	4500.5
30°	4121.2	4154.5	4008.1	3794.4	3466.4	3177.9	3176.9	3479.6	3575.3	4051.5	4437.0
32.5°	4563.1	4577.1	4476.3	4259.5	3834.7	3414.0	3261.7	3487.6	3570.4	4010.3	4356.2
35°	5010.9	5029.2	4963.6	4789.0	4338.1	3760.0	3427.0	3535.0	3601.7	3996.1	4299.7
37.5°	5591.1	5615.2	5524.4	5322.7	4950.5	4229.1	3702.5	3654.0	3697.5	4036.4	4282.6
40°	6508.1	6497.0	6231.7	5931.1	5620.3	4829.4	4095.9	3855.9	3881.0	4166.6	4335.1
42.5°	7575.4	7548.3	7091.3	6619.2	6356.8	5555.7	4616.5	4206.0	4200.8	4422.9	4519.7
45°	8427.0	8404.8	7993.2	7411.0	7201.3	6383.0	5289.4	4727.5	4690.2	4829.4	4860.6
47.5°	8888.0	8889.1	8651.9	8176.8	8171.7	7434.3	6154.0	5482.1	5417.6	5483.2	5449.8
50°	8726.7	8747.9	8722.6	8571.3	9057.5	8812.4	7283.0	6534.5	6404.2	6468.8	6340.6
52.5°	7945.8	7972.9	8122.4	8354.3	9429.8	10478.0	8941.5	7841.8	7690.5	7667.4	7525.0
55°	6561.6	6594.8	6899.6	7530.1	9120.0	11596.8	11558.5	9508.5	9267.4	9048.4	8987.9
57.5°	4522.6	4578.2	5068.4	6004.7	8118.3	11934.8	14674.8	11884.3	11394.0	10629.4	10643.5
60°	2549.4	2614.0	3192.0	4042.6	6096.5	11567.6	17045.7	15482.9	14447.8	12480.6	12585.6
62.5°	1621.3	1690.8	2129.7	2808.7	3658.1	9590.1	18017.1	20485.8	19171.3	14762.6	14865.5
65°	1312.6	1342.7	1549.5	2318.3	2656.3	5777.7	17279.6	24607.0	24116.7	17659.1	17178.7
67.5°	1281.3	1291.4	1398.3	1946.1	2547.4	3247.6	13783.1	25377.7	25921.6	20363.8	18142.3
70°	1266.2	1301.5	1575.8	1857.2	2439.3	2739.0	8282.7	23265.3	24123.9	21071.1	16860.0
72.5°	614.4	612.4	792.9	1679.7	2748.2	2840.9	4255.4	18824.3	19685.8	18255.3	13854.6
75°	495.3	452.9	432.9	615.3	2642.2	2933.8	2711.9	12952.8	13576.2	12239.4	8516.8
77.5°	470.2	419.7	384.4	385.5	1116.9	3111.3	2297.1	7169.0	7350.6	5528.4	2333.4
80°	389.4	343.1	317.8	358.2	540.8	2963.0	2483.9	3244.5	2977.2	1357.9	776.9
82.5°	270.4	246.1	239.0	300.7	432.9	2111.6	2888.4	1743.3	1461.8	679.9	479.2
85°	172.6	147.3	163.4	218.9	337.0	974.5	2975.1	1359.0	1080.5	431.7	270.4
87.5°	79.7	64.6	80.7	121.0	219.9	336.0	2830.9	1526.4	1112.8	228.0	170.5
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°	4412.7	4412.7	4412.7	4412.7	4412.7	4412.7	4412.7	4412.7	4412.7	4412.7	4412.7
2.5°	4414.8	4395.5	4380.4	4352.2	4320.9	4290.7	4263.4	4229.1	4219.0	4209.9	4224.1
5°	4428.9	4409.7	4354.3	4267.5	4171.5	4081.9	3992.1	3915.4	3867.9	3841.7	3856.9
7.5°	4450.1	4422.9	4307.8	4148.5	3975.9	3818.5	3656.1	3525.9	3430.1	3384.8	3397.7
10°	4469.2	4416.7	4229.1	3990.0	3737.8	3503.7	3247.6	3035.6	2878.3	2795.5	2815.6
12.5°	4477.3	4393.6	4119.2	3792.3	3446.3	3103.3	2725.9	2409.2	2183.2	2100.4	2083.3
15°	4485.3	4367.3	3998.0	3567.3	3094.1	2608.9	2080.3	1700.9	1513.3	1472.0	1462.8
17.5°	4487.5	4321.9	3860.8	3323.2	2681.5	2020.7	1422.5	1181.5	1182.3	1249.0	1257.1
20°	4466.3	4254.4	3694.4	3019.6	2187.3	1397.3	976.5	935.2	1087.6	1254.0	1274.2
22.5°	4417.8	4164.5	3505.7	2665.5	1621.3	920.0	755.7	801.0	997.7	1201.6	1224.7
25°	4356.2	4055.6	3282.9	2254.7	1073.5	657.7	633.6	689.1	822.2	958.4	971.5
27.5°	4272.5	3926.5	3032.6	1784.7	697.2	541.8	557.8	595.2	649.7	710.2	716.3
30°	4164.5	3772.2	2765.3	1301.5	526.6	487.3	510.4	530.7	553.9	588.2	591.2
32.5°	4040.4	3623.9	2490.9	898.9	467.1	459.0	477.2	487.3	505.4	526.6	528.7
35°	3936.6	3482.5	2206.3	635.6	441.8	437.8	450.0	454.1	471.2	494.3	496.4
37.5°	3877.1	3367.6	1912.9	512.6	424.7	418.7	425.7	425.7	450.0	484.2	489.2
40°	3881.0	3304.0	1619.3	463.0	410.6	402.5	403.6	403.6	434.8	472.1	475.2
42.5°	3991.0	3320.1	1359.0	443.9	399.4	390.5	385.5	388.3	414.7	438.8	440.9
45°	4249.3	3434.1	1114.7	431.7	388.3	385.5	374.2	373.2	383.3	394.4	394.4
47.5°	4673.1	3659.2	949.2	423.7	379.4	378.4	365.3	352.0	351.1	355.1	355.1
50°	5362.1	4046.5	838.4	414.7	373.2	365.3	350.1	329.9	322.9	325.8	325.8
52.5°	6395.2	4737.7	796.0	402.5	360.2	347.0	329.9	309.7	303.6	304.6	304.6
55°	7750.0	5798.9	789.9	388.3	346.0	324.8	310.8	295.6	288.5	290.5	290.5
57.5°	9405.6	7266.7	897.9	366.1	326.9	302.6	294.6	284.6	279.5	282.4	281.4
60°	11418.3	9187.7	1331.6	343.1	307.7	282.4	282.4	274.4	270.4	273.4	272.4
62.5°	13736.6	11394.0	1872.4	325.8	287.5	266.3	270.4	266.3	262.3	264.3	263.4
65°	15792.7	12831.7	1753.4	312.7	267.3	251.2	258.3	256.2	253.2	255.3	254.2
67.5°	15852.2	12299.0	984.6	298.6	248.2	236.1	246.1	245.1	243.1	245.1	244.1
70°	14147.1	10385.1	554.9	272.4	228.0	217.8	232.0	231.0	229.0	233.0	232.0
72.5°	11334.5	7536.2	405.6	240.0	207.8	198.7	214.9	213.8	213.8	219.9	216.9
75°	6522.2	3878.1	323.8	205.8	186.7	179.7	193.8	194.8	196.6	204.9	198.7
77.5°	1859.3	1208.6	264.3	174.5	160.3	157.5	171.4	173.6	174.5	183.7	175.6
80°	691.1	556.9	217.8	146.2	131.2	132.2	145.3	148.3	149.3	158.5	148.3
82.5°	440.9	367.2	176.5	112.9	102.9	101.9	118.0	122.1	122.1	123.1	117.0
85°	257.3	219.9	133.2	81.7	72.7	69.6	87.8	94.9	91.7	89.8	85.8
87.5°	172.6	151.4	81.7	45.5	39.3	37.3	51.5	56.6	54.4	51.5	48.4
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)