

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: P193624

Luminaire Tested: **GLEON-AF-06-LED-E1-SL2-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193624
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-SL2-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 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: 22993 lumens
Efficiency: N/A
Efficacy: 92.3 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

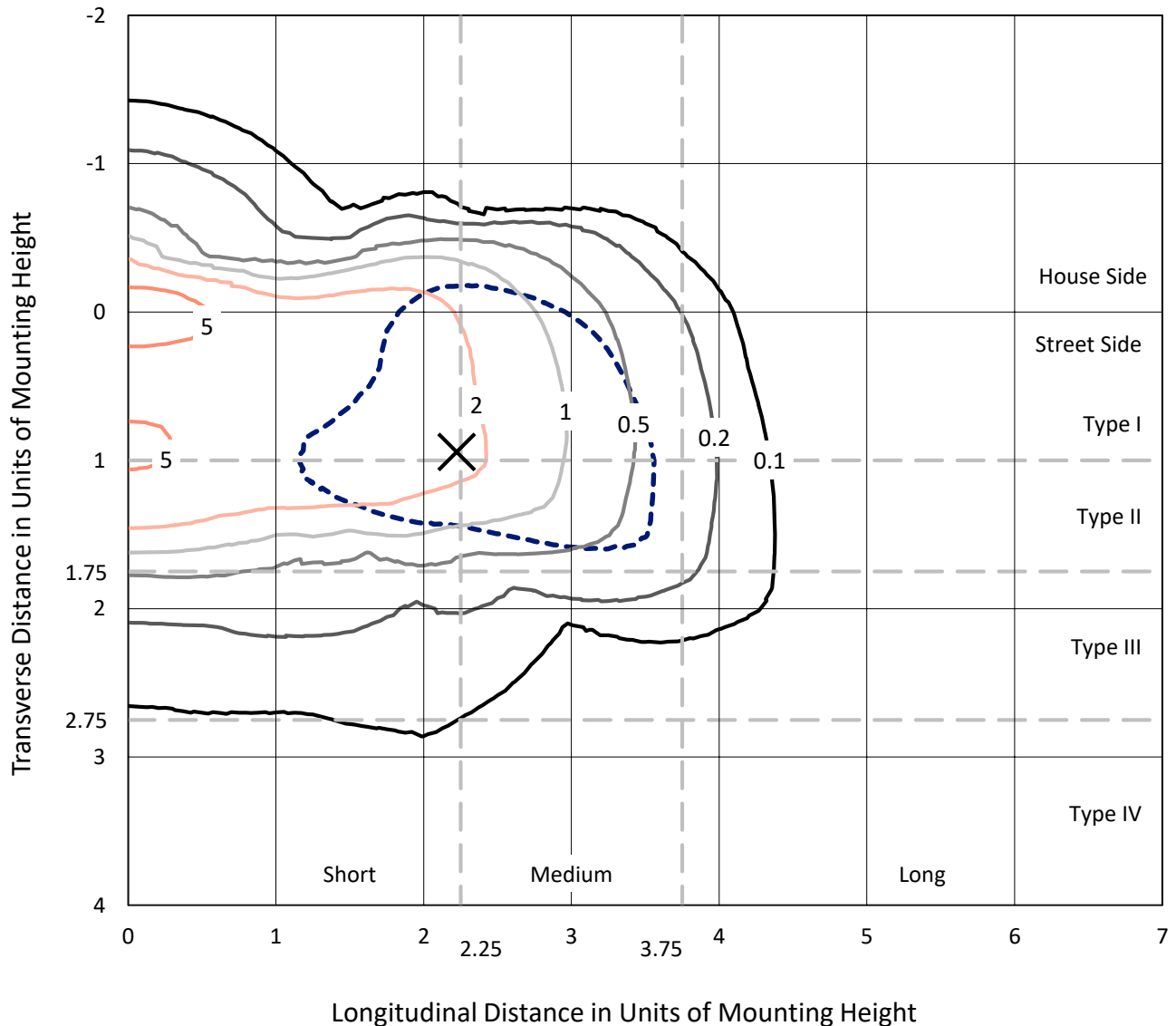
Input Watts (W): 249
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

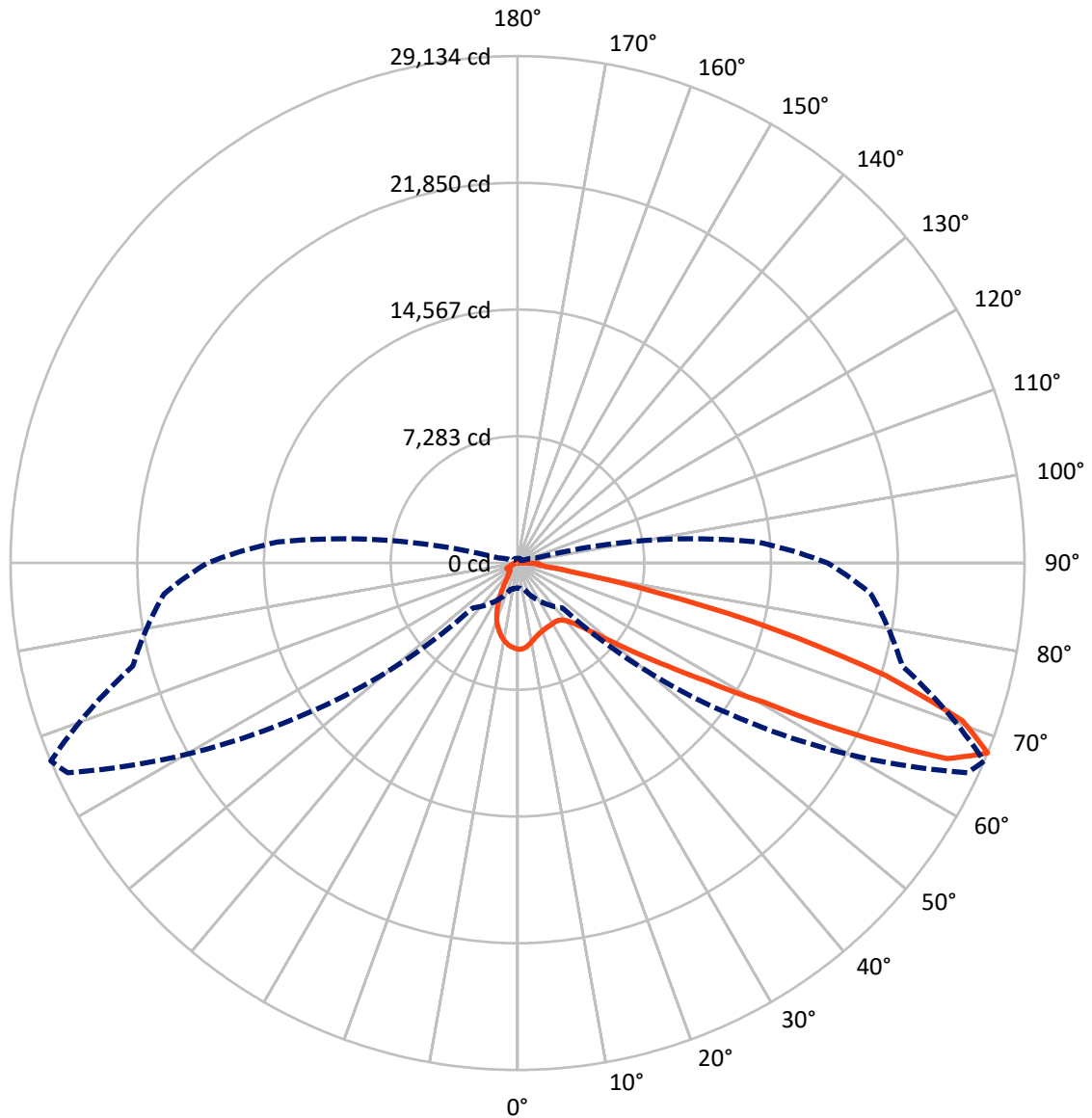


Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type II - Short - Semi-Cutoff

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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	3809.7	0.0	3809.7
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	19183.3	0.0	19183.3
	% Fixture	83.4	0.0	83.4
Total	Lumens	22993.0	0.0	22993.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	423.1	1.8
10°-20°	979.0	4.3
20°-30°	1327.1	5.8
30°-40°	1886.6	8.2
40°-50°	3156.4	13.7
50°-60°	4993.4	21.7
60°-70°	6361.1	27.7
70°-80°	3331.9	14.5
80°-90°	534.4	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°	22993.0	100.0
0°-180°	22993.0	100.0



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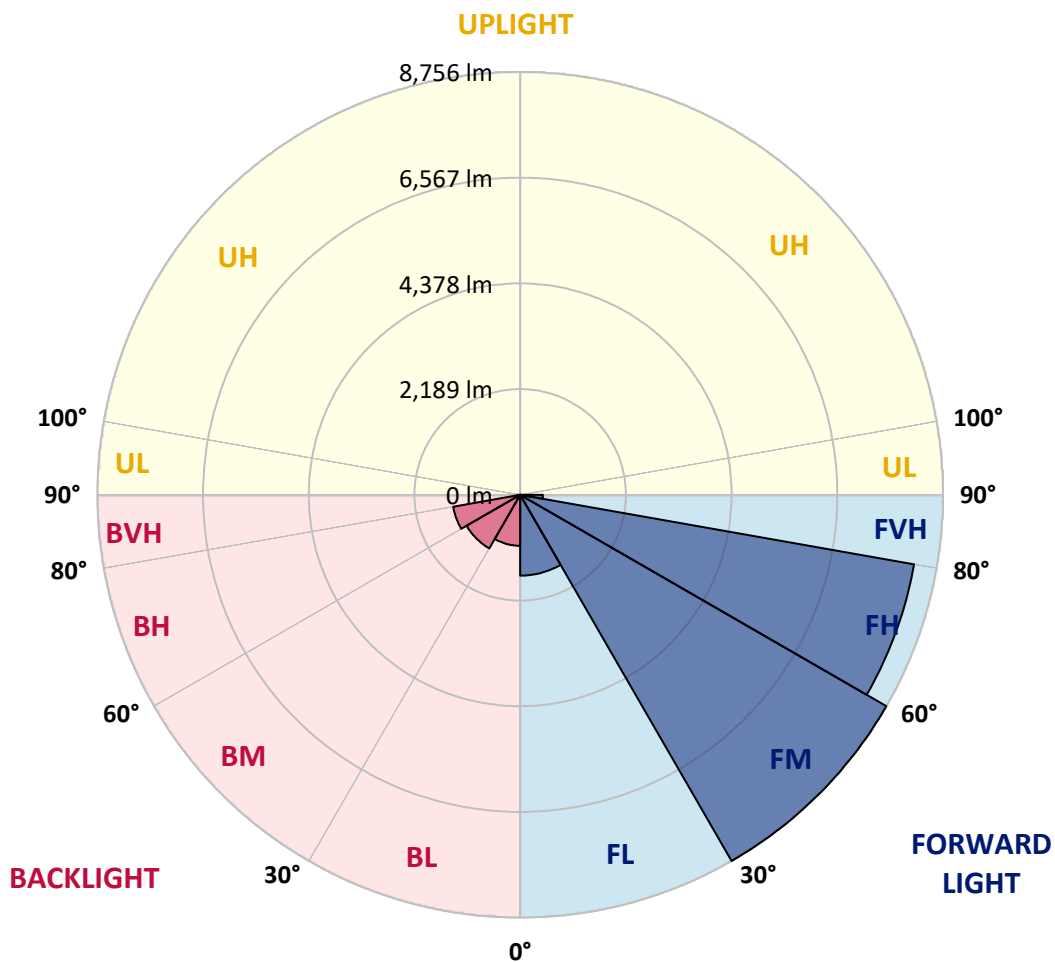
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1673.3	7.3			
FM (30°-60°)	8756.2	38.1			
FH (60°-80°)	8283.9	36.0			G4/12000
FVH (80°-90°)	469.9	2.0			G3/500
BL (0°-30°)	1055.9	4.6	B3/2500		
BM (30°-60°)	1280.2	5.6	B2/2500		
BH (60°-80°)	1409.1	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°	4959.5	4959.5	4959.5	4959.5	4959.5	4959.5	4959.5	4959.5	4959.5	4959.5	4959.5
2.5°	4755.4	4763.4	4788.3	4804.2	4875.6	4906.2	4927.8	4949.3	4952.7	4962.9	4952.7
5°	4256.5	4273.5	4320.0	4372.2	4510.5	4619.4	4733.9	4853.0	4874.5	4951.6	4973.1
7.5°	3869.9	3865.4	3903.9	3966.3	4108.0	4258.8	4459.5	4696.5	4743.0	4916.4	5000.4
10°	3587.6	3584.2	3625.0	3689.6	3824.5	3967.4	4194.2	4518.5	4584.2	4860.9	5026.4
12.5°	3378.9	3380.1	3420.9	3492.3	3629.5	3773.5	4003.7	4346.1	4430.0	4796.3	5053.6
15°	3240.6	3249.7	3282.5	3358.5	3492.3	3636.3	3862.0	4216.9	4311.0	4745.2	5084.3
17.5°	3194.1	3208.8	3220.2	3275.7	3390.3	3534.3	3755.4	4121.6	4221.4	4710.1	5111.5
20°	3237.2	3254.2	3232.7	3251.9	3324.5	3451.5	3671.5	4046.8	4148.8	4670.4	5114.9
22.5°	3422.0	3437.9	3374.4	3318.8	3314.3	3391.4	3602.3	3987.8	4093.3	4640.9	5116.0
25°	3747.4	3757.6	3651.1	3521.8	3395.9	3369.9	3553.5	3947.0	4059.2	4614.8	5094.5
27.5°	4146.6	4154.5	4032.0	3841.5	3588.7	3420.9	3536.5	3923.2	4040.0	4592.2	5058.2
30°	4631.8	4669.3	4504.9	4264.5	3896.0	3571.7	3570.5	3910.7	4018.4	4553.6	4986.7
32.5°	5128.5	5144.4	5031.0	4787.2	4309.8	3837.0	3665.8	3919.8	4012.8	4507.1	4896.0
35°	5631.9	5652.3	5578.6	5382.5	4875.6	4225.9	3851.7	3973.1	4047.9	4491.2	4832.5
37.5°	6283.9	6311.1	6209.1	5982.3	5563.9	4753.2	4161.3	4106.9	4155.6	4536.6	4813.3
40°	7314.6	7302.1	7003.9	6666.0	6316.8	5427.8	4603.5	4333.6	4362.0	4682.9	4872.2
42.5°	8514.2	8483.6	7970.0	7439.3	7144.5	6244.2	5188.6	4727.1	4721.4	4970.9	5079.7
45°	9471.2	9446.2	8983.6	8329.4	8093.5	7174.0	5944.9	5313.3	5271.3	5427.8	5463.0
47.5°	9989.4	9990.5	9724.0	9190.0	9184.3	8355.5	6916.6	6161.4	6088.9	6162.6	6125.1
50°	9807.9	9831.8	9803.4	9633.3	10179.9	9904.3	8185.4	7344.1	7197.8	7270.4	7126.4
52.5°	8930.3	8961.0	9128.8	9389.6	10598.3	11776.3	10049.5	8813.5	8643.5	8617.4	8457.5
55°	7374.7	7412.1	7754.5	8463.2	10250.2	13033.8	12990.7	10686.7	10415.7	10169.7	10101.6
57.5°	5083.1	5145.5	5696.5	6748.8	9124.2	13413.6	16493.2	13357.0	12805.9	11946.4	11962.3
60°	2865.3	2937.8	3587.6	4543.4	6852.0	13000.9	19157.8	17401.5	16238.1	14027.1	14145.0
62.5°	1822.1	1900.4	2393.6	3156.7	4111.4	10778.5	20249.7	23024.3	21546.9	16591.9	16707.5
65°	1475.2	1509.2	1741.6	2605.6	2985.5	6493.7	19420.9	27656.1	27105.1	19847.2	19307.5
67.5°	1440.0	1451.3	1571.5	2187.2	2863.0	3649.9	15490.9	28522.4	29133.6	22887.1	20390.3
70°	1423.0	1462.7	1771.1	2087.4	2741.7	3078.4	9309.0	26148.1	27113.0	23681.9	18949.2
72.5°	690.5	688.3	891.2	1887.9	3088.7	3193.0	4782.7	21156.8	22125.1	20517.3	15571.4
75°	556.7	509.1	486.4	691.7	2969.6	3297.3	3047.8	14557.7	15258.4	13756.1	9572.1
77.5°	528.4	471.7	432.0	433.1	1255.2	3496.8	2581.8	8057.3	8261.4	6213.6	2622.6
80°	437.7	385.5	357.2	402.5	607.8	3330.2	2791.6	3646.5	3346.0	1526.2	873.1
82.5°	303.9	276.7	268.7	337.9	486.4	2373.2	3246.3	1959.3	1643.0	764.2	538.6
85°	193.9	165.5	183.7	246.0	378.7	1095.3	3343.8	1527.3	1214.4	485.3	303.9
87.5°	89.6	72.6	90.7	136.1	247.2	377.6	3181.6	1715.5	1250.7	256.3	191.6
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°	4959.5	4959.5	4959.5	4959.5	4959.5	4959.5	4959.5	4959.5	4959.5	4959.5	4959.5
2.5°	4961.8	4940.3	4923.3	4891.5	4856.4	4822.3	4791.7	4753.2	4741.8	4731.6	4747.5
5°	4977.7	4956.1	4893.8	4796.3	4688.5	4587.6	4486.7	4400.5	4347.2	4317.8	4334.8
7.5°	5001.5	4970.9	4841.6	4662.5	4468.6	4291.7	4109.1	3962.9	3855.1	3804.1	3818.9
10°	5023.0	4964.1	4753.2	4484.4	4201.0	3937.9	3649.9	3411.8	3234.9	3141.9	3164.6
12.5°	5032.1	4938.0	4629.6	4262.2	3873.3	3487.8	3063.7	2707.7	2453.7	2360.7	2341.4
15°	5041.2	4908.5	4493.5	4009.4	3477.6	2932.2	2338.0	1911.7	1700.8	1654.3	1644.1
17.5°	5043.4	4857.5	4339.3	3735.0	3013.8	2271.1	1598.8	1327.8	1328.9	1403.7	1412.8
20°	5019.6	4781.5	4152.2	3393.7	2458.2	1570.4	1097.6	1051.1	1222.3	1409.4	1432.1
22.5°	4965.2	4680.6	3940.2	2995.7	1822.1	1034.1	849.3	900.3	1121.4	1350.4	1376.5
25°	4896.0	4558.1	3689.6	2534.2	1206.4	739.3	712.1	774.4	924.1	1077.2	1091.9
27.5°	4801.9	4413.0	3408.4	2005.8	783.5	608.9	627.0	669.0	730.2	798.2	805.0
30°	4680.6	4239.5	3107.9	1462.7	591.9	547.7	573.7	596.4	622.5	661.0	664.4
32.5°	4541.1	4072.8	2799.5	1010.3	525.0	515.9	536.3	547.7	568.1	591.9	594.1
35°	4424.3	3914.1	2479.8	714.3	496.6	492.1	505.7	510.2	529.5	555.6	557.9
37.5°	4357.5	3784.8	2149.8	576.0	477.4	470.6	478.5	478.5	505.7	544.3	549.9
40°	4362.0	3713.4	1819.9	520.4	461.5	452.4	453.5	453.5	488.7	530.6	534.1
42.5°	4485.6	3731.6	1527.3	498.9	449.0	438.8	433.1	436.5	466.0	493.2	495.5
45°	4775.8	3859.7	1252.9	485.3	436.5	433.1	420.7	419.5	430.9	443.3	443.3
47.5°	5252.1	4112.5	1067.0	476.2	426.3	425.2	410.5	395.7	394.6	399.1	399.1
50°	6026.5	4547.9	942.2	466.0	419.5	410.5	393.5	370.8	362.8	366.2	366.2
52.5°	7187.6	5324.6	894.6	452.4	404.8	390.1	370.8	348.1	341.3	342.4	342.4
55°	8710.4	6517.5	887.8	436.5	388.9	365.1	349.2	332.2	324.3	326.6	326.6
57.5°	10571.0	8167.2	1009.1	411.6	367.4	340.2	331.1	319.8	314.1	317.5	316.3
60°	12833.1	10326.1	1496.7	385.5	345.8	317.5	317.5	308.4	303.9	307.3	306.1
62.5°	15438.7	12805.9	2104.5	366.2	323.2	299.3	303.9	299.3	294.8	297.1	295.9
65°	17749.6	14421.7	1970.7	351.5	300.5	282.3	290.3	288.0	284.6	286.9	285.7
67.5°	17816.5	13823.0	1106.7	335.6	278.9	265.3	276.7	275.5	273.3	275.5	274.4
70°	15900.2	11672.0	623.6	306.1	256.3	244.9	260.8	259.7	257.4	261.9	260.8
72.5°	12739.0	8470.0	455.8	269.9	233.6	223.4	241.5	240.4	240.4	247.2	243.8
75°	7330.4	4358.6	364.0	231.3	209.8	201.8	217.7	218.8	221.1	230.2	223.4
77.5°	2089.7	1358.4	297.1	196.2	180.3	176.9	192.8	195.0	196.2	206.4	197.3
80°	776.7	625.9	244.9	164.4	147.4	148.5	163.3	166.7	167.8	178.0	166.7
82.5°	495.5	412.7	198.4	127.0	115.7	114.5	132.7	137.2	137.2	138.3	131.5
85°	289.1	247.2	149.7	91.8	81.6	78.2	98.6	106.6	103.2	100.9	96.4
87.5°	193.9	170.1	91.8	51.0	44.2	42.0	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)