

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: P269225

Luminaire Tested: **GLEON-AF-04-LED-E1-SL2-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269225
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-SL2-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1050mA 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: 20436.4 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

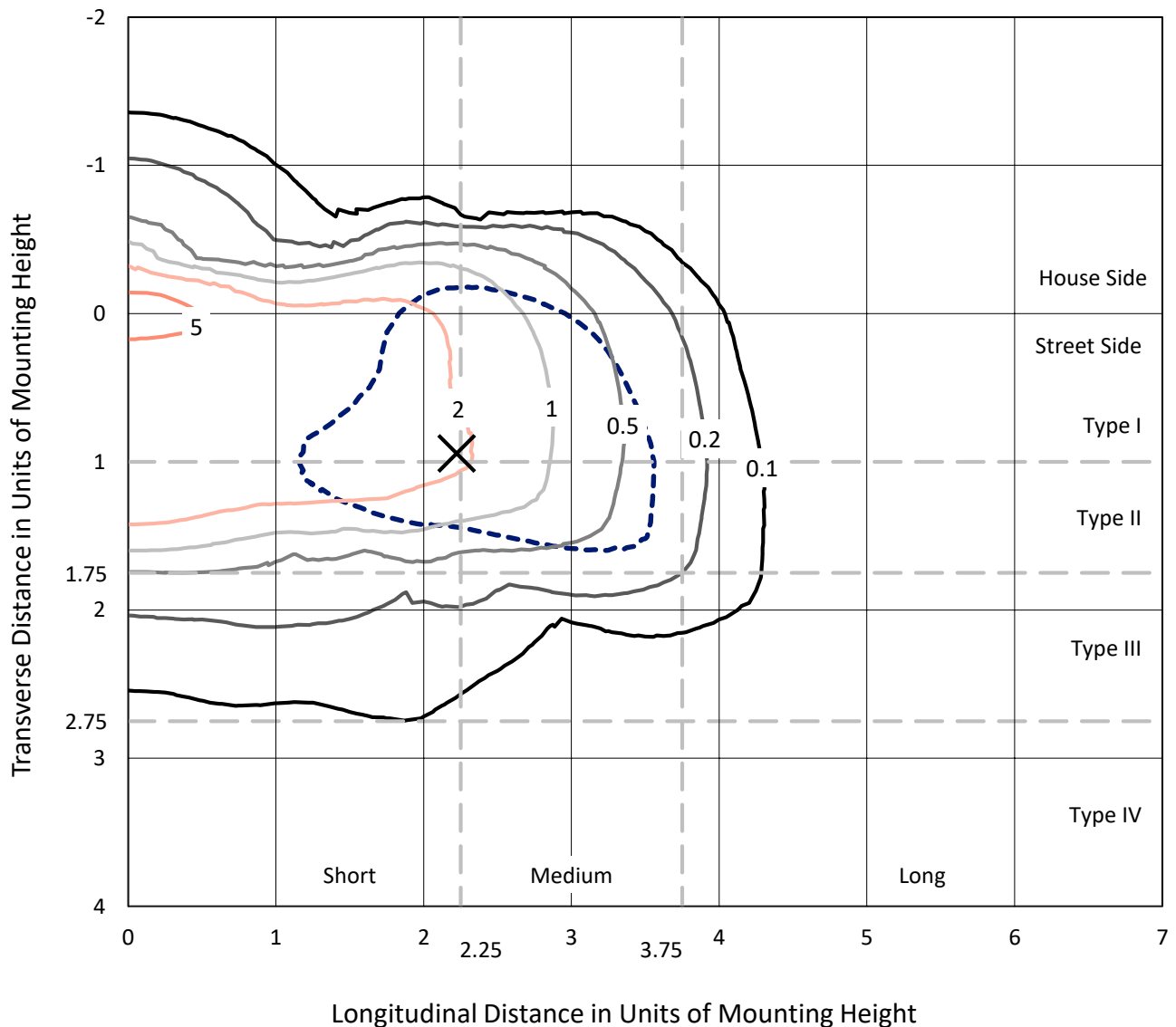
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

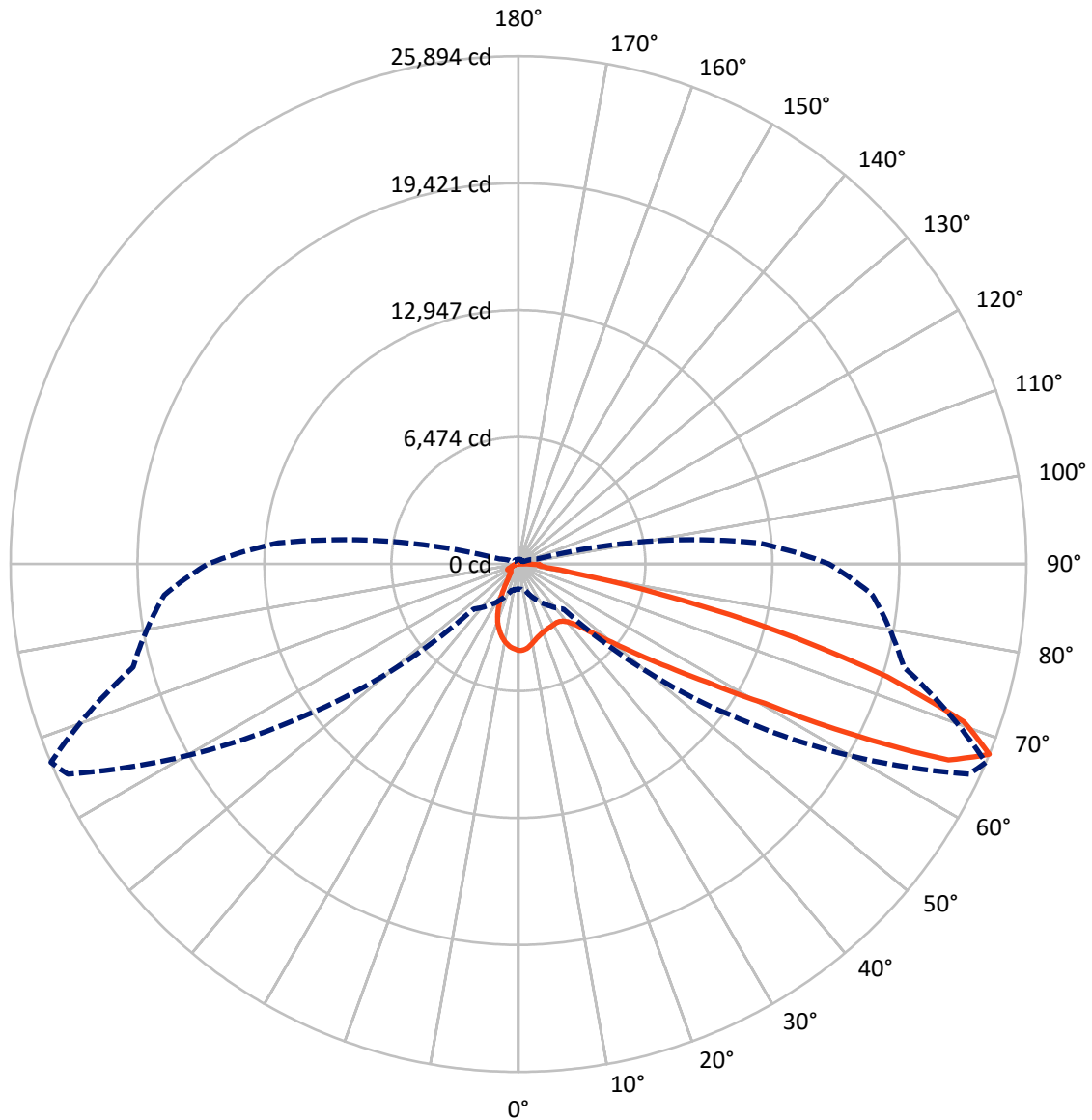
× Max cd
 - - - 1/2 Max cd



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	3386.1	0.0	3386.1
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	17050.3	0.0	17050.3
	% Fixture	83.4	0.0	83.4
Total	Lumens	20436.4	0.0	20436.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	376.1	1.8
10°-20°	870.2	4.3
20°-30°	1179.5	5.8
30°-40°	1676.8	8.2
40°-50°	2805.4	13.7
50°-60°	4438.2	21.7
60°-70°	5653.8	27.7
70°-80°	2961.4	14.5
80°-90°	475.0	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°	20436.4	100.0
0°-180°	20436.4	100.0



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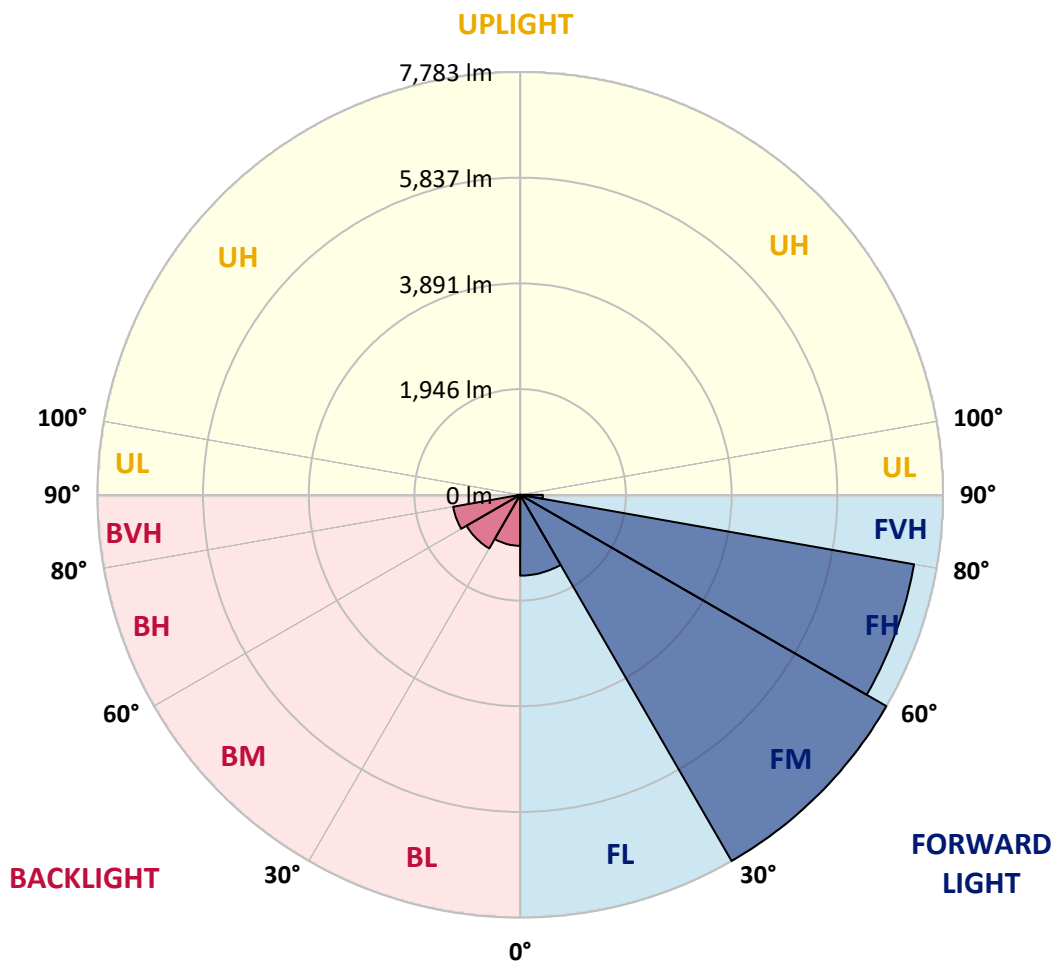
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1487.3	7.3			
FM (30°-60°)	7782.6	38.1			
FH (60°-80°)	7362.8	36.0			G3/7500
FVH (80°-90°)	417.6	2.0			G3/500
BL (0°-30°)	938.5	4.6	B2/1000		
BM (30°-60°)	1137.8	5.6	B2/2500		
BH (60°-80°)	1252.4	6.1	B3/2500		G3/2500
BVH (80°-90°)	57.3	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°	4408.2	4408.2	4408.2	4408.2	4408.2	4408.2	4408.2	4408.2	4408.2	4408.2	4408.2
2.5°	4226.6	4233.7	4255.9	4270.1	4333.6	4360.7	4379.9	4399.0	4402.1	4411.0	4402.1
5°	3783.2	3798.4	3839.6	3886.1	4009.0	4105.8	4207.5	4313.3	4332.4	4401.1	4420.2
7.5°	3439.6	3435.6	3469.9	3525.3	3651.3	3785.3	3963.6	4174.2	4215.6	4369.7	4444.4
10°	3188.7	3185.6	3222.0	3279.4	3399.2	3526.2	3727.8	4016.1	4074.5	4320.4	4467.5
12.5°	3003.3	3004.2	3040.6	3104.1	3226.0	3353.9	3558.5	3862.9	3937.5	4262.9	4491.7
15°	2880.2	2888.3	2917.5	2985.1	3104.1	3232.0	3432.6	3748.0	3831.6	4217.6	4519.0
17.5°	2839.0	2852.1	2862.1	2911.4	3013.4	3141.4	3337.8	3663.3	3752.0	4186.5	4543.1
20°	2877.2	2892.4	2873.1	2890.3	2954.9	3067.7	3263.3	3596.9	3687.5	4151.1	4546.1
22.5°	3041.5	3055.7	2999.3	2949.9	2945.8	3014.4	3201.7	3544.4	3638.1	4124.8	4547.2
25°	3330.7	3339.8	3245.0	3130.2	3018.3	2995.2	3158.4	3508.2	3608.0	4101.8	4527.9
27.5°	3685.4	3692.6	3583.7	3414.4	3189.6	3040.6	3143.3	3487.0	3590.7	4081.5	4495.7
30°	4116.8	4150.1	4003.9	3790.3	3462.7	3174.5	3173.5	3475.9	3571.7	4047.4	4432.2
32.5°	4558.2	4572.4	4471.6	4254.9	3830.6	3410.3	3258.2	3483.9	3566.6	4006.0	4351.7
35°	5005.7	5023.9	4958.4	4784.1	4333.6	3756.1	3423.5	3531.2	3597.8	3991.9	4295.2
37.5°	5585.2	5609.3	5518.6	5317.1	4945.2	4224.6	3698.6	3650.3	3693.6	4032.2	4278.1
40°	6501.3	6490.2	6225.2	5924.9	5614.3	4824.3	4091.6	3851.8	3876.9	4162.1	4330.5
42.5°	7567.5	7540.4	7083.8	6612.2	6350.1	5549.9	4611.7	4201.6	4196.4	4418.1	4514.9
45°	8418.0	8395.9	7984.8	7403.2	7193.5	6376.3	5283.8	4722.5	4685.2	4824.3	4855.6
47.5°	8878.7	8879.7	8642.9	8168.2	8163.1	7426.4	6147.6	5476.3	5411.8	5477.3	5444.1
50°	8717.4	8738.5	8713.4	8562.3	9048.0	8803.1	7275.3	6527.4	6397.5	6462.0	6333.9
52.5°	7937.3	7964.6	8113.8	8345.6	9419.8	10467.0	8932.0	7833.6	7682.5	7659.2	7517.1
55°	6554.8	6587.9	6892.2	7522.1	9110.4	11584.5	11546.3	9498.5	9257.7	9038.8	8978.4
57.5°	4517.9	4573.5	5063.1	5998.4	8109.7	11922.1	14659.4	11871.8	11382.1	10618.1	10632.2
60°	2546.7	2611.3	3188.7	4038.2	6090.1	11555.3	17027.6	15466.6	14432.6	12467.3	12572.1
62.5°	1619.6	1689.1	2127.5	2805.6	3654.2	9580.1	17998.1	20464.2	19151.1	14747.0	14849.8
65°	1311.2	1341.3	1548.0	2315.9	2653.6	5771.6	17261.6	24581.1	24091.3	17640.3	17160.7
67.5°	1279.8	1290.0	1396.9	1944.0	2544.7	3244.0	13768.4	25351.0	25894.3	20342.3	18123.1
70°	1264.8	1300.0	1574.2	1855.4	2436.8	2736.1	8274.0	23240.7	24098.3	21048.7	16842.2
72.5°	613.7	611.7	792.1	1677.9	2745.2	2837.9	4250.9	18804.4	19665.1	18236.0	13839.9
75°	494.8	452.4	432.4	614.8	2639.4	2930.7	2709.0	12939.0	13561.8	12226.6	8507.8
77.5°	469.6	419.2	383.9	385.0	1115.7	3108.0	2294.7	7161.4	7342.7	5522.7	2331.0
80°	389.0	342.7	317.5	357.7	540.2	2959.8	2481.2	3241.1	2974.0	1356.5	776.0
82.5°	270.1	245.9	238.9	300.4	432.4	2109.3	2885.3	1741.5	1460.3	679.3	478.6
85°	172.4	147.1	163.2	218.6	336.7	973.6	2972.0	1357.5	1079.4	431.4	270.1
87.5°	79.6	64.5	80.6	120.9	219.6	335.5	2827.9	1524.9	1111.7	227.8	170.3
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°	4408.2	4408.2	4408.2	4408.2	4408.2	4408.2	4408.2	4408.2	4408.2	4408.2	4408.2
2.5°	4410.0	4390.9	4375.9	4347.5	4316.4	4286.2	4259.0	4224.6	4214.6	4205.5	4219.6
5°	4424.2	4405.1	4349.7	4262.9	4167.1	4077.5	3987.8	3911.2	3863.9	3837.6	3852.8
7.5°	4445.4	4418.1	4303.3	4144.1	3971.6	3814.6	3652.1	3522.3	3426.4	3381.1	3394.2
10°	4464.5	4412.1	4224.6	3985.8	3733.8	3500.1	3244.0	3032.5	2875.2	2792.7	2812.8
12.5°	4472.7	4388.8	4114.9	3788.3	3442.7	3100.1	2723.0	2406.6	2180.8	2098.3	2081.2
15°	4480.7	4362.7	3993.9	3563.5	3090.9	2606.2	2078.0	1699.1	1511.7	1470.3	1461.4
17.5°	4482.6	4317.3	3856.9	3319.6	2678.7	2018.6	1420.9	1180.2	1181.1	1247.7	1255.7
20°	4461.5	4249.8	3690.5	3016.2	2184.9	1395.7	975.5	934.2	1086.4	1252.6	1272.9
22.5°	4413.2	4160.2	3502.1	2662.5	1619.6	919.1	754.8	800.2	996.7	1200.2	1223.4
25°	4351.7	4051.4	3279.4	2252.4	1072.2	657.1	632.9	688.3	821.3	957.5	970.4
27.5°	4267.9	3922.3	3029.4	1782.7	696.4	541.1	557.3	594.6	649.0	709.5	715.5
30°	4160.2	3768.1	2762.4	1300.0	526.0	486.7	510.0	530.1	553.3	587.5	590.5
32.5°	4036.3	3620.0	2488.2	897.9	466.6	458.6	476.7	486.7	504.8	526.0	528.1
35°	3932.4	3478.9	2204.0	634.9	441.3	437.4	449.5	453.6	470.6	493.8	495.9
37.5°	3873.0	3364.1	1910.8	511.9	424.3	418.3	425.3	425.3	449.5	483.7	488.8
40°	3876.9	3300.6	1617.5	462.5	410.2	402.1	403.1	403.1	434.4	471.6	474.7
42.5°	3986.8	3316.6	1357.5	443.5	399.0	390.0	385.0	388.0	414.2	438.5	440.3
45°	4244.9	3430.5	1113.5	431.4	388.0	385.0	373.9	372.8	382.9	394.0	394.0
47.5°	4668.1	3655.3	948.3	423.3	378.9	377.9	364.8	351.7	350.7	354.7	354.7
50°	5356.5	4042.3	837.5	414.2	372.8	364.8	349.7	329.6	322.5	325.5	325.5
52.5°	6388.3	4732.6	795.2	402.1	359.9	346.7	329.6	309.3	303.4	304.3	304.3
55°	7741.9	5792.8	789.2	388.0	345.7	324.5	310.5	295.4	288.3	290.2	290.2
57.5°	9395.6	7259.2	897.0	365.8	326.5	302.3	294.3	284.3	279.2	282.2	281.2
60°	11406.1	9178.0	1330.3	342.7	307.4	282.2	282.2	274.2	270.1	273.2	272.0
62.5°	13722.1	11382.1	1870.5	325.5	287.2	266.1	270.1	266.1	262.0	264.0	263.1
65°	15775.9	12818.2	1751.5	312.4	267.1	250.9	258.1	255.9	253.0	254.9	254.0
67.5°	15835.4	12285.9	983.6	298.2	247.9	235.9	245.9	244.9	242.9	244.9	243.9
70°	14132.2	10374.3	554.3	272.0	227.8	217.7	231.9	230.8	228.8	232.8	231.9
72.5°	11322.5	7528.2	405.1	239.8	207.6	198.5	214.7	213.6	213.6	219.6	216.8
75°	6515.3	3873.9	323.5	205.6	186.5	179.4	193.4	194.6	196.5	204.5	198.5
77.5°	1857.3	1207.3	264.0	174.4	160.3	157.3	171.3	173.4	174.4	183.4	175.3
80°	690.3	556.3	217.7	146.2	131.1	132.1	145.2	148.1	149.2	158.2	148.1
82.5°	440.3	366.9	176.3	112.8	102.8	101.8	117.9	121.9	121.9	123.0	116.9
85°	256.9	219.6	132.9	81.7	72.6	69.4	87.7	94.7	91.6	89.7	85.7
87.5°	172.4	151.2	81.7	45.4	39.3	37.3	51.5	56.5	54.3	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)