

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: P269306

Luminaire Tested: **GLEON-AF-05-LED-E1-SL2-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269306
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-SL2-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 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: 16683.2 lumens
Efficiency: N/A
Efficacy: 103.0 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

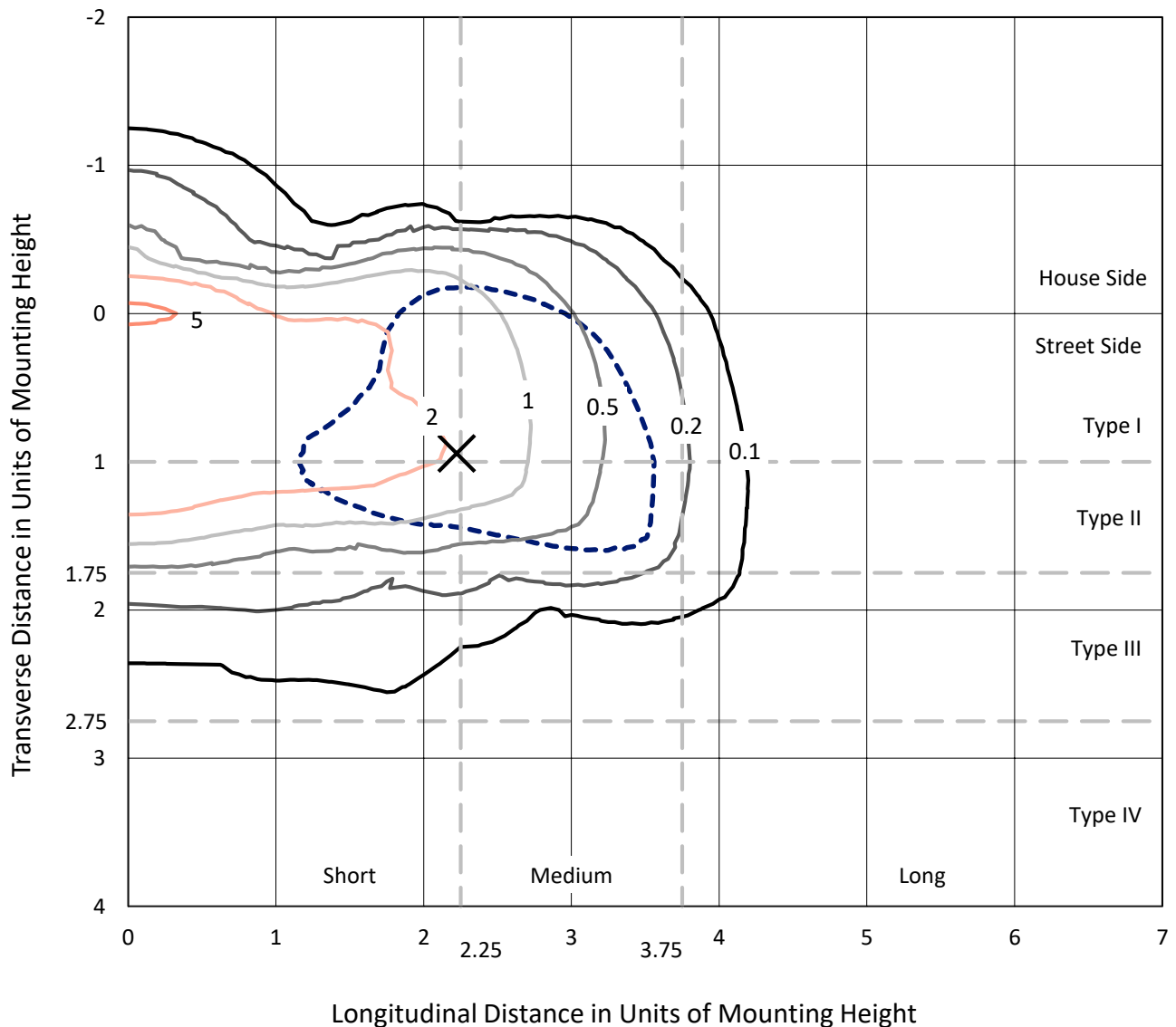
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

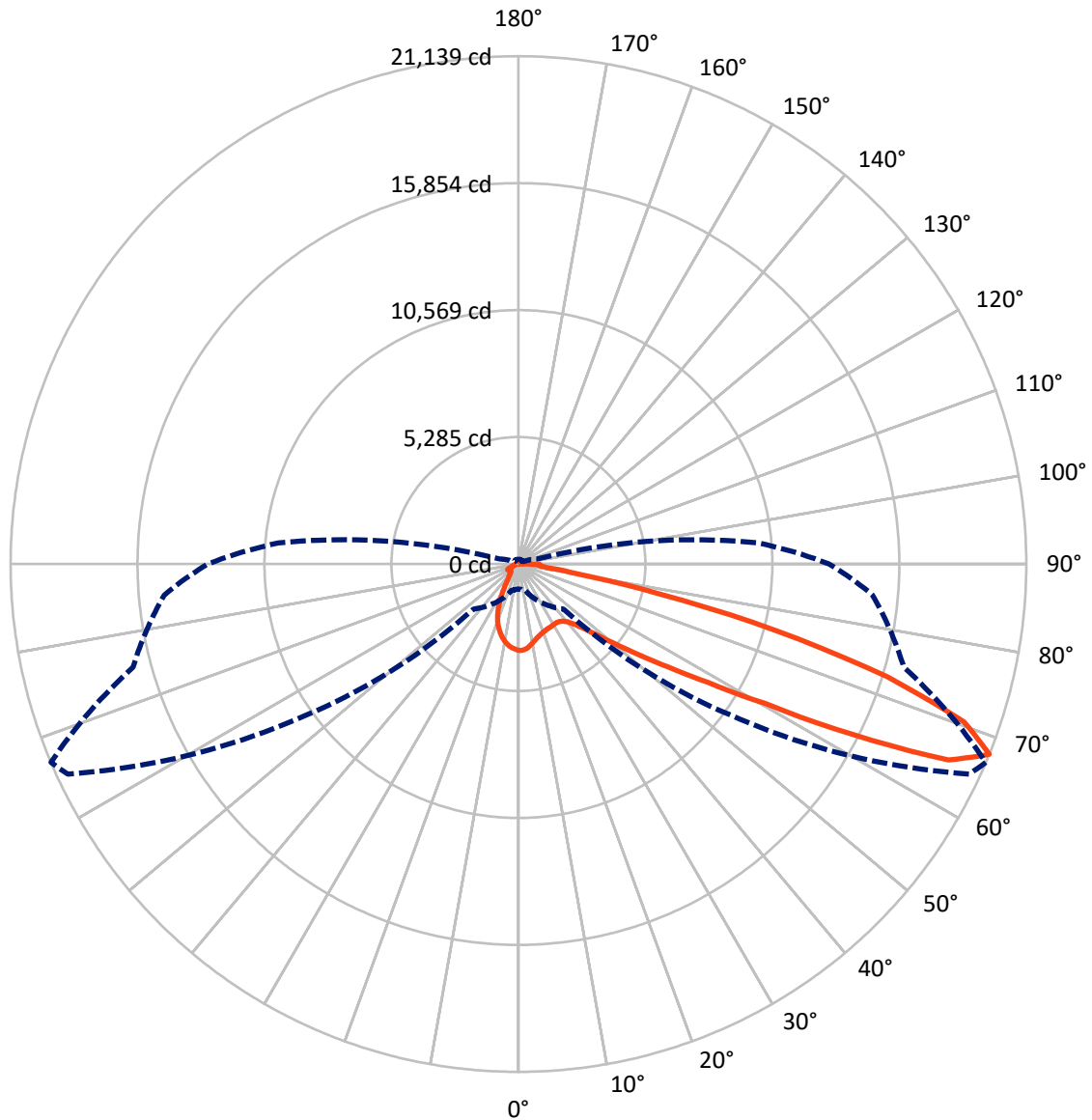
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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	2764.2	0.0	2764.2
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	13919.0	0.0	13919.0
	% Fixture	83.4	0.0	83.4
Total	Lumens	16683.2	0.0	16683.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.0	1.8
10°-20°	710.4	4.3
20°-30°	962.9	5.8
30°-40°	1368.9	8.2
40°-50°	2290.2	13.7
50°-60°	3623.1	21.7
60°-70°	4615.4	27.7
70°-80°	2417.6	14.5
80°-90°	387.7	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°	16683.2	100.0
0°-180°	16683.2	100.0



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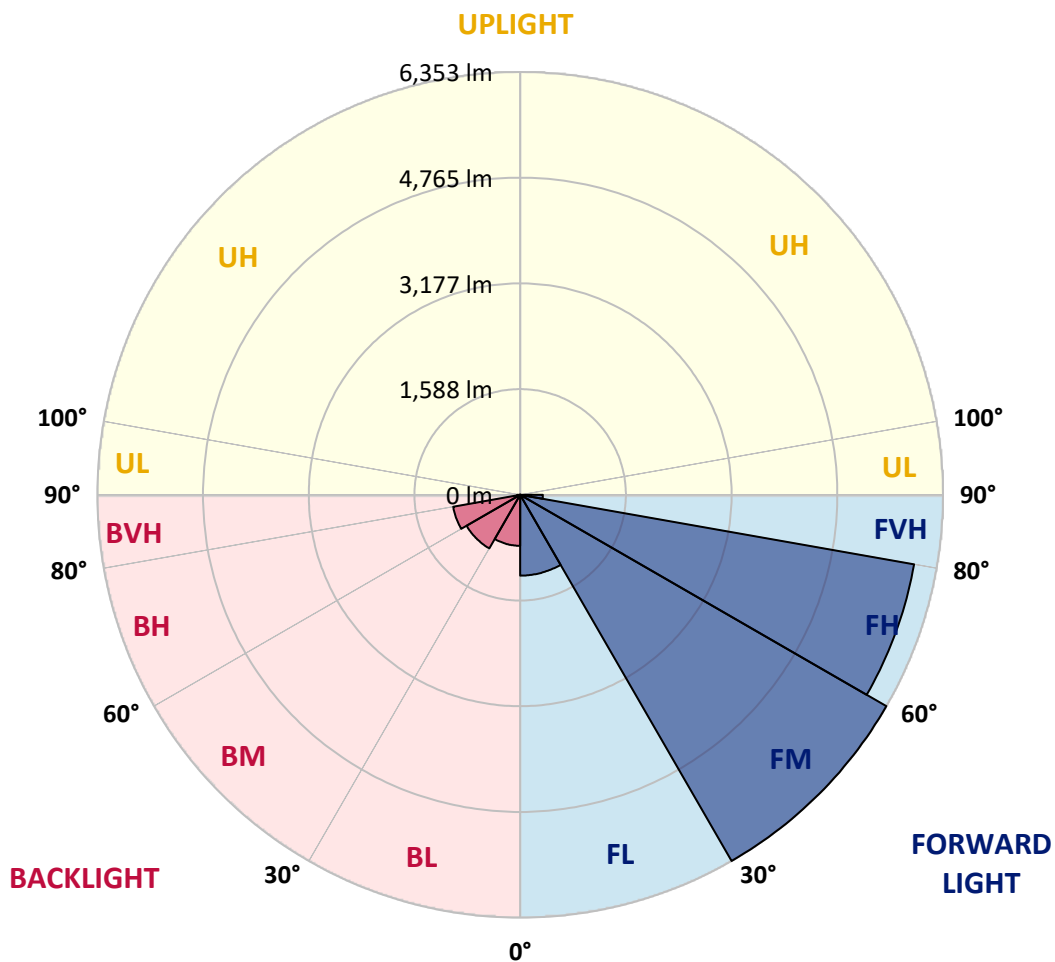
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1214.1	7.3			
FM (30°-60°)	6353.3	38.1			
FH (60°-80°)	6010.6	36.0			G3/7500
FVH (80°-90°)	340.9	2.0			G3/500
BL (0°-30°)	766.2	4.6	B2/1000		
BM (30°-60°)	928.9	5.6	B1/1000		
BH (60°-80°)	1022.4	6.1	B3/2500		G3/2500
BVH (80°-90°)	46.8	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°	3598.5	3598.5	3598.5	3598.5	3598.5	3598.5	3598.5	3598.5	3598.5	3598.5	3598.5
2.5°	3450.4	3456.1	3474.4	3485.9	3537.6	3559.9	3575.6	3591.2	3593.6	3600.9	3593.6
5°	3088.5	3100.8	3134.5	3172.4	3272.7	3351.8	3434.8	3521.1	3536.8	3592.9	3608.4
7.5°	2807.9	2804.6	2832.5	2877.8	2980.7	3090.1	3235.8	3407.7	3441.3	3567.3	3628.2
10°	2603.1	2600.7	2630.1	2677.0	2775.0	2878.7	3043.2	3278.5	3326.2	3526.9	3647.1
12.5°	2451.7	2452.6	2482.0	2533.9	2633.6	2737.9	2904.9	3153.4	3214.3	3480.0	3666.8
15°	2351.4	2358.0	2381.8	2436.8	2533.9	2638.4	2802.2	3059.6	3128.0	3443.1	3689.0
17.5°	2317.5	2328.2	2336.5	2376.8	2459.9	2564.4	2724.7	2990.5	3063.0	3417.5	3708.8
20°	2348.9	2361.1	2345.6	2359.5	2412.2	2504.4	2664.0	2936.3	3010.3	3388.8	3711.3
22.5°	2482.9	2494.5	2448.4	2408.0	2404.9	2460.7	2613.8	2893.5	2969.9	3367.3	3712.1
25°	2719.1	2726.4	2649.1	2555.3	2464.1	2445.0	2578.3	2863.8	2945.4	3348.4	3696.4
27.5°	3008.7	3014.4	2925.6	2787.4	2603.8	2482.0	2566.0	2846.5	2931.3	3332.0	3670.1
30°	3360.7	3387.9	3268.7	3094.2	2826.8	2591.5	2590.7	2837.6	2915.7	3304.0	3618.3
32.5°	3721.0	3732.6	3650.4	3473.4	3127.1	2784.0	2659.8	2844.2	2911.5	3270.3	3552.4
35°	4086.4	4101.2	4047.8	3905.4	3537.6	3066.3	2794.7	2882.8	2937.1	3258.7	3506.4
37.5°	4559.4	4579.2	4505.2	4340.6	4037.1	3448.9	3019.4	2979.9	3015.3	3291.7	3492.4
40°	5307.2	5298.3	5081.9	4836.7	4583.3	3938.3	3340.2	3144.3	3165.0	3397.7	3535.2
42.5°	6177.7	6155.5	5782.7	5397.7	5183.8	4530.6	3764.6	3429.9	3425.7	3606.8	3685.7
45°	6872.2	6854.0	6518.3	6043.6	5872.5	5205.3	4313.5	3855.3	3824.8	3938.3	3963.9
47.5°	7248.1	7249.0	7055.6	6668.1	6663.9	6062.5	5018.6	4470.7	4418.0	4471.5	4444.3
50°	7116.5	7133.7	7113.1	6989.7	7386.3	7186.4	5939.1	5328.7	5222.6	5275.1	5170.7
52.5°	6479.7	6501.8	6623.7	6812.8	7689.9	8544.7	7291.7	6394.9	6271.4	6252.7	6136.6
55°	5350.9	5378.1	5626.5	6140.8	7437.2	9457.0	9425.7	7754.0	7557.4	7378.9	7329.5
57.5°	3688.3	3733.4	4133.3	4896.8	6620.4	9732.6	11967.1	9691.5	9291.7	8668.0	8679.6
60°	2078.9	2131.7	2603.1	3296.6	4971.6	9433.2	13900.6	12626.0	11782.0	10177.7	10263.2
62.5°	1322.0	1378.9	1736.8	2290.4	2983.1	7820.6	14692.8	16705.9	15633.9	12038.6	12122.5
65°	1070.3	1095.0	1263.6	1890.7	2166.3	4711.7	14091.4	20066.7	19666.9	14400.6	14009.1
67.5°	1044.9	1053.1	1140.3	1586.9	2077.3	2648.4	11239.9	20695.2	21138.6	16606.3	14794.7
70°	1032.5	1061.3	1285.0	1514.6	1989.2	2233.6	6754.4	18972.6	19672.6	17183.0	13749.1
72.5°	501.1	499.4	646.7	1369.8	2241.0	2316.8	3470.2	15351.0	16053.5	14886.9	11298.3
75°	404.0	369.5	352.9	501.9	2154.7	2392.5	2211.4	10562.8	11071.3	9981.1	6945.3
77.5°	383.3	342.3	313.5	314.2	910.7	2537.3	1873.3	5846.2	5994.3	4508.5	1902.9
80°	317.6	279.7	259.2	292.0	441.0	2416.4	2025.5	2645.9	2427.8	1107.4	633.5
82.5°	220.4	200.7	195.0	245.1	352.9	1722.0	2355.4	1421.7	1192.1	554.6	390.9
85°	140.7	120.2	133.3	178.6	274.8	794.7	2426.1	1108.1	881.1	352.1	220.4
87.5°	64.9	52.6	65.8	98.8	179.3	274.0	2308.6	1244.7	907.5	185.9	139.1
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°	3598.5	3598.5	3598.5	3598.5	3598.5	3598.5	3598.5	3598.5	3598.5	3598.5	3598.5
2.5°	3600.1	3584.5	3572.2	3549.2	3523.6	3499.0	3476.8	3448.9	3440.6	3433.1	3444.7
5°	3611.6	3596.1	3550.8	3480.0	3401.9	3328.7	3255.5	3192.9	3154.3	3132.8	3145.2
7.5°	3629.0	3606.8	3513.0	3382.9	3242.3	3114.0	2981.6	2875.4	2797.2	2760.2	2770.9
10°	3644.7	3601.8	3448.9	3253.8	3048.0	2857.2	2648.4	2475.5	2347.2	2279.7	2296.2
12.5°	3651.3	3582.9	3359.1	3092.5	2810.3	2530.6	2222.9	1964.7	1780.4	1712.9	1698.9
15°	3657.8	3561.5	3260.4	2909.2	2523.2	2127.5	1696.4	1387.2	1234.0	1200.3	1192.9
17.5°	3659.4	3524.5	3148.5	2709.9	2186.7	1647.9	1160.0	963.4	964.2	1018.5	1025.1
20°	3642.2	3469.3	3012.7	2462.3	1783.7	1139.5	796.3	762.7	886.8	1022.6	1039.1
22.5°	3602.7	3396.1	2858.9	2173.5	1322.0	750.4	616.1	653.2	813.7	979.8	998.7
25°	3552.4	3307.3	2677.0	1838.7	875.4	536.4	516.6	561.9	670.6	781.5	792.2
27.5°	3484.2	3202.0	2473.0	1455.3	568.4	441.7	454.9	485.4	529.8	579.1	584.1
30°	3396.1	3076.1	2255.0	1061.3	429.5	397.4	416.3	432.8	451.7	479.6	482.1
32.5°	3295.0	2955.2	2031.2	733.0	380.9	374.4	389.1	397.4	412.2	429.5	431.0
35°	3210.3	2840.0	1799.2	518.3	360.3	357.0	367.0	370.2	384.2	403.1	404.7
37.5°	3161.7	2746.2	1559.8	417.9	346.3	341.4	347.1	347.1	367.0	395.0	398.9
40°	3165.0	2694.3	1320.5	377.6	334.9	328.3	329.0	329.0	354.7	385.1	387.4
42.5°	3254.6	2707.5	1108.1	361.9	325.7	318.4	314.2	316.7	338.1	357.9	359.5
45°	3465.2	2800.5	909.1	352.1	316.7	314.2	305.2	304.3	312.6	321.7	321.7
47.5°	3810.8	2984.0	774.2	345.6	309.3	308.5	297.8	287.1	286.3	289.7	289.7
50°	4372.7	3299.8	683.7	338.1	304.3	297.8	285.5	269.0	263.3	265.7	265.7
52.5°	5215.2	3863.4	649.1	328.3	293.7	283.1	269.0	252.6	247.7	248.4	248.4
55°	6320.0	4728.9	644.2	316.7	282.2	264.9	253.4	241.0	235.3	237.0	237.0
57.5°	7670.1	5925.9	732.2	298.6	266.5	246.9	240.2	232.0	227.9	230.3	229.5
60°	9311.4	7492.5	1086.1	279.7	250.9	230.3	230.3	223.8	220.4	223.0	222.2
62.5°	11202.0	9291.7	1526.9	265.7	234.5	217.2	220.4	217.2	213.8	215.6	214.8
65°	12878.7	10464.0	1429.8	255.1	218.0	204.9	210.7	208.9	206.5	208.1	207.2
67.5°	12927.1	10029.7	802.9	243.5	202.4	192.4	200.7	200.0	198.3	200.0	199.2
70°	11536.8	8469.0	452.4	222.2	185.9	177.8	189.3	188.5	186.8	190.0	189.3
72.5°	9243.1	6145.7	330.8	195.8	169.5	162.1	175.2	174.5	174.5	179.3	176.8
75°	5318.9	3162.6	264.1	167.9	152.3	146.5	157.9	158.8	160.4	167.1	162.1
77.5°	1516.2	985.6	215.6	142.3	130.9	128.4	139.9	141.6	142.3	149.7	143.2
80°	563.5	454.2	177.8	119.3	107.0	107.7	118.4	120.9	121.8	129.1	120.9
82.5°	359.5	299.4	144.0	92.2	83.9	83.2	96.3	99.5	99.5	100.4	95.4
85°	209.8	179.3	108.5	66.7	59.3	56.8	71.5	77.3	74.9	73.2	69.9
87.5°	140.7	123.3	66.7	37.0	32.1	30.5	42.0	46.1	44.5	42.0	39.4
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)