

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: P193592

Luminaire Tested: **GLEON-AF-04-LED-E1-SL2-8030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193592
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
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-SL2-8030-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16229 lumens
Efficiency: N/A
Efficacy: 72.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - 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

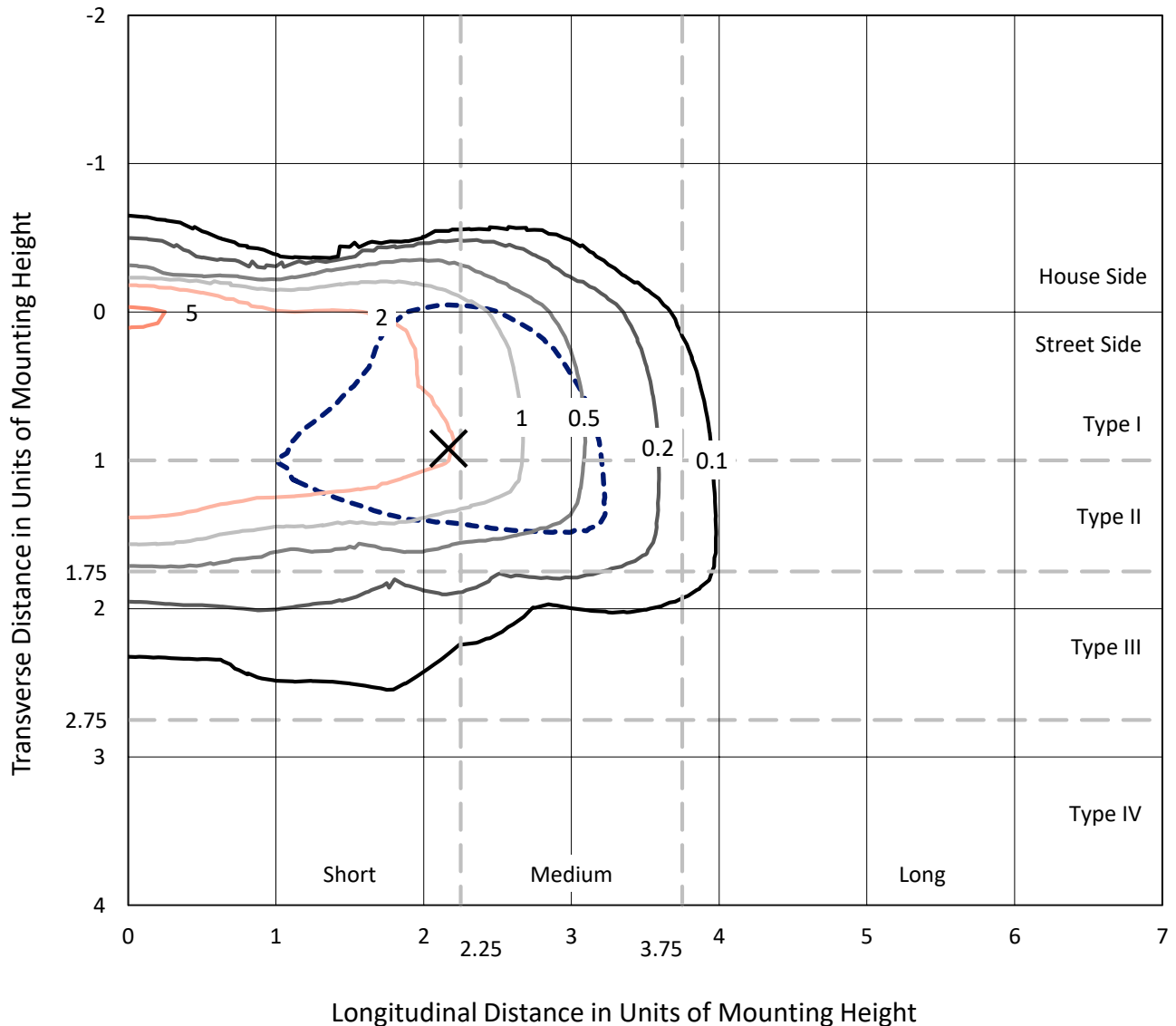


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Iso-Footcandle Lines of Horizontal Illumination

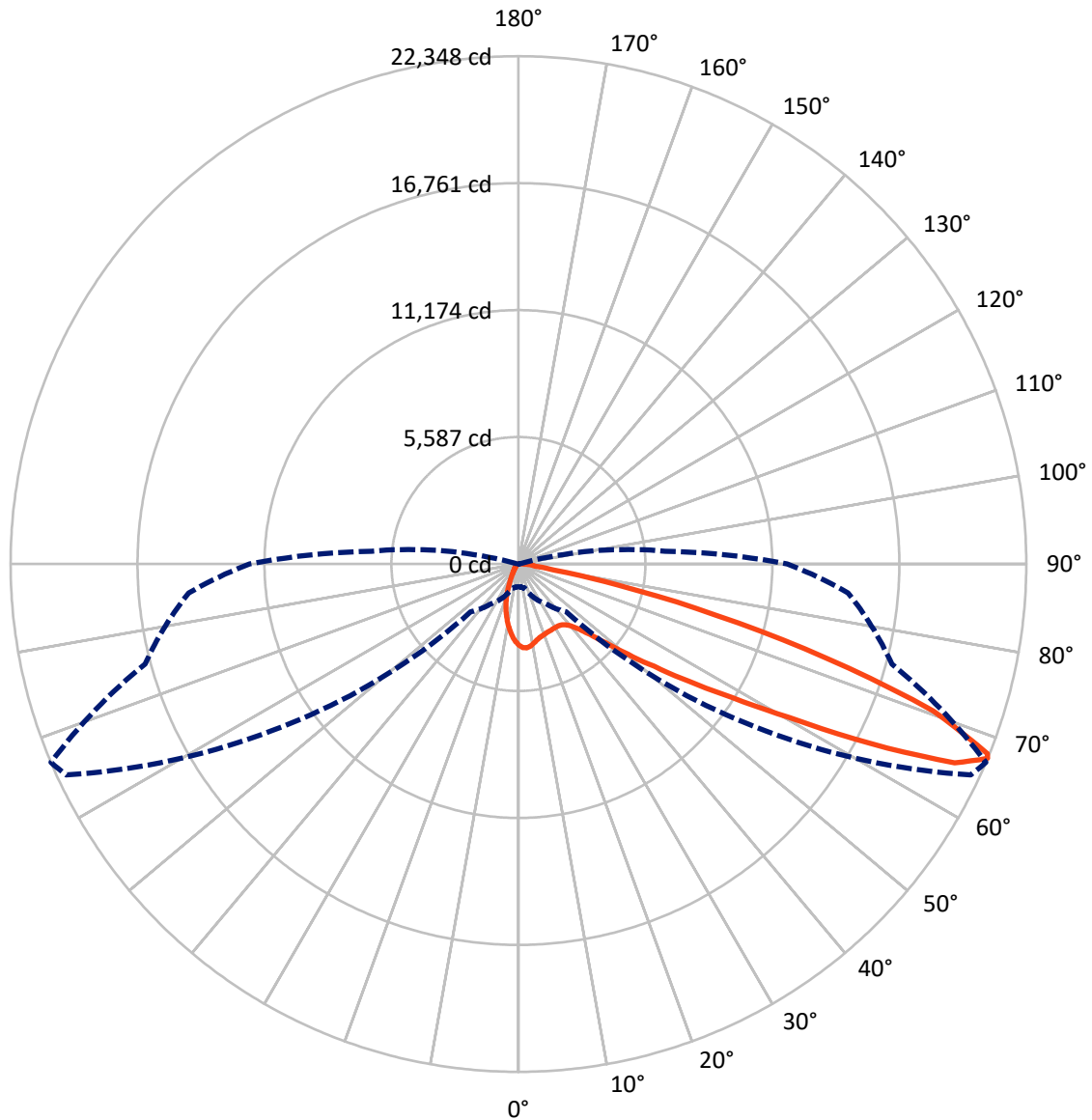
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1685.1	0.0	1685.1
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	14543.9	0.0	14543.9
	% Fixture	89.6	0.0	89.6
Total	Lumens	16229.0	0.0	16229.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.2	1.8
10°-20°	619.8	3.8
20°-30°	901.2	5.6
30°-40°	1405.9	8.7
40°-50°	2490.5	15.3
50°-60°	3940.9	24.3
60°-70°	4513.8	27.8
70°-80°	1872.3	11.5
80°-90°	193.4	1.2
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°	16229.0	100.0
0°-180°	16229.0	100.0

Coefficient of Utilization



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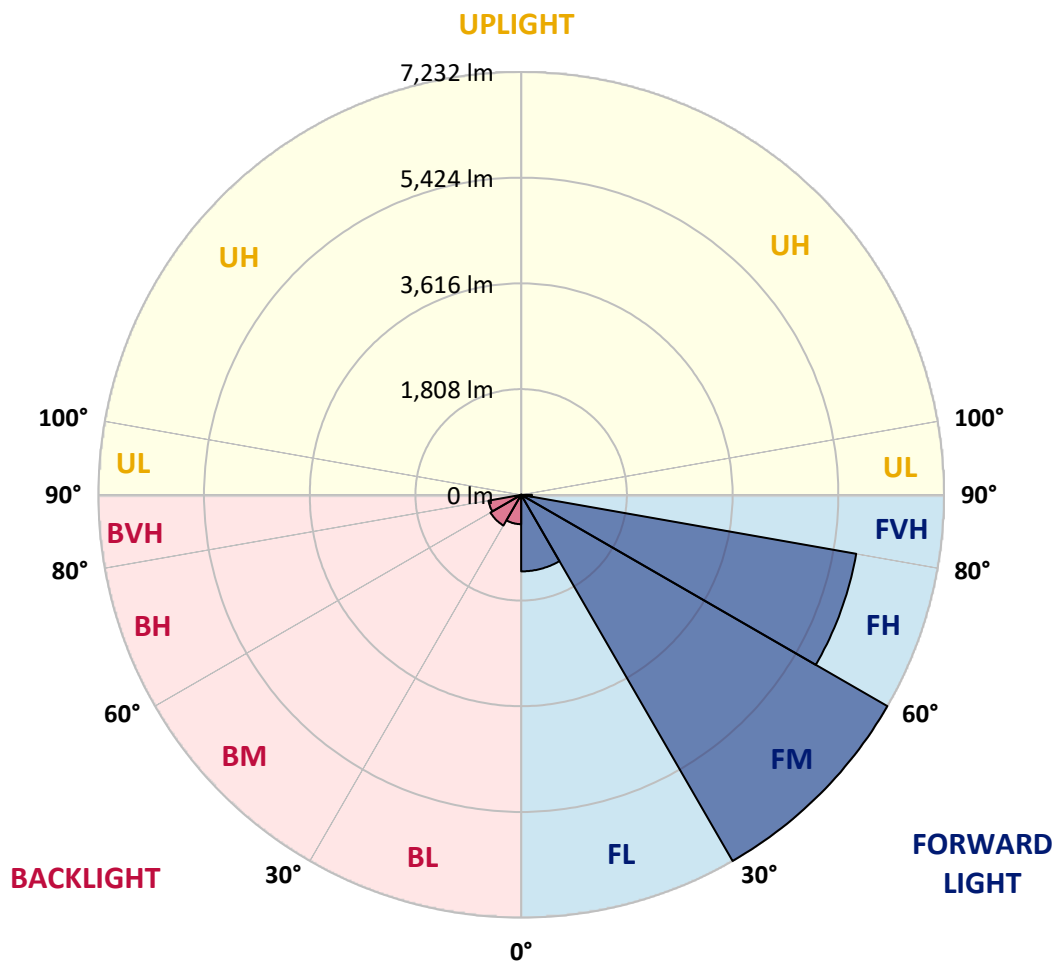
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1309.4	8.1			
FM (30°-60°)	7231.7	44.6			
FH (60°-80°)	5818.1	35.9			G3/7500
FVH (80°-90°)	184.7	1.1			G2/225
BL (0°-30°)	502.8	3.1	B2/1000		
BM (30°-60°)	605.6	3.7	B1/1000		
BH (60°-80°)	567.9	3.5	B2/1000		G2/1000
BVH (80°-90°)	8.7	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3579.1	3579.1	3579.1	3579.1	3579.1	3579.1	3579.1	3579.1	3579.1	3579.1	3579.1
2.5°	3700.3	3707.8	3706.9	3712.6	3725.8	3726.8	3713.5	3688.0	3682.3	3649.1	3591.4
5°	3412.5	3434.3	3447.5	3501.5	3562.1	3634.9	3689.8	3709.7	3706.9	3683.2	3596.1
7.5°	3084.0	3105.8	3120.9	3184.4	3264.8	3389.8	3532.7	3650.1	3660.5	3686.1	3592.3
10°	2865.4	2869.1	2890.0	2950.6	3034.8	3162.6	3333.0	3538.4	3569.6	3663.3	3582.9
12.5°	2685.5	2688.3	2715.8	2781.1	2871.0	2999.8	3178.7	3416.3	3464.6	3634.9	3581.0
15°	2557.7	2568.1	2592.7	2660.9	2756.5	2884.3	3067.9	3326.4	3384.1	3624.5	3598.0
17.5°	2515.1	2526.5	2534.0	2583.3	2670.4	2795.3	2983.7	3267.7	3333.0	3630.2	3631.2
20°	2559.6	2568.1	2551.1	2563.4	2617.3	2729.0	2912.7	3217.5	3295.1	3636.8	3673.8
22.5°	2725.3	2729.0	2682.7	2628.7	2619.2	2680.8	2856.8	3177.7	3261.0	3654.8	3723.9
25°	3009.2	3002.6	2926.9	2810.5	2700.6	2672.3	2823.7	3153.1	3244.0	3673.8	3776.0
27.5°	3351.9	3361.4	3257.2	3087.8	2878.6	2729.0	2819.0	3142.7	3236.4	3687.0	3821.4
30°	3768.4	3781.7	3662.4	3449.4	3149.3	2869.1	2862.5	3140.8	3231.7	3678.5	3825.2
32.5°	4193.4	4209.5	4115.8	3896.2	3510.9	3103.9	2961.0	3161.6	3241.2	3649.1	3803.4
35°	4638.3	4661.1	4598.6	4410.2	4001.3	3442.8	3134.2	3225.1	3285.6	3646.3	3781.7
37.5°	5252.7	5273.5	5156.1	4956.4	4594.8	3897.2	3412.5	3344.3	3390.7	3691.7	3787.3
40°	6169.9	6167.1	5864.2	5558.4	5247.0	4474.6	3803.4	3560.2	3583.8	3829.0	3857.4
42.5°	7169.5	7164.8	6717.1	6252.3	5971.2	5185.5	4317.4	3933.1	3917.0	4081.7	4039.1
45°	7940.1	7939.1	7573.7	7050.3	6843.0	6001.4	4982.0	4451.9	4427.2	4492.6	4374.2
47.5°	8268.5	8274.2	8090.6	7722.4	7809.4	7105.2	5819.7	5203.5	5166.5	5140.0	4960.2
50°	8013.0	8024.3	8039.5	7967.5	8518.5	8588.5	6943.3	6262.7	6244.7	6126.4	5845.3
52.5°	7178.1	7235.8	7413.8	7641.9	8764.6	10012.2	8704.9	7578.5	7481.9	7356.0	7046.5
55°	5771.4	5834.8	6172.8	6726.5	8398.2	10947.4	11173.7	9274.8	9113.9	8738.1	8291.3
57.5°	3819.5	3918.0	4408.3	5112.6	7334.3	11097.9	13636.7	11629.0	11068.6	10039.6	9536.0
60°	2104.3	2199.0	2730.9	3368.9	5297.2	10353.9	15293.3	14694.1	13703.9	11494.6	11047.8
62.5°	1295.9	1347.0	1739.9	2333.4	3176.8	8172.0	15635.9	18545.8	17399.5	13367.9	12873.8
65°	1031.8	1053.6	1245.7	1907.4	2277.5	4860.8	14529.4	21482.1	21099.7	15635.9	14508.5
67°	1001.5	1010.0	1100.9	1637.6	2146.9	2979.9	12172.3	21960.2	22348.3	17008.5	14559.7
67.5°	1008.1	1017.6	1103.7	1562.8	2143.1	2738.5	11360.1	21771.8	22262.1	17117.4	14333.4
70°	972.2	1001.5	1263.7	1561.9	2038.0	2275.6	6803.2	18863.8	19374.1	15904.8	12161.9
72.5°	344.6	346.5	546.2	1263.7	2216.0	2300.2	3416.3	13828.9	14206.6	12166.6	8768.4
75°	204.5	174.2	181.7	359.7	2117.5	2234.0	1970.8	8836.5	8977.6	6971.7	4440.5
77.5°	141.0	123.1	126.8	159.0	806.5	2202.7	1565.7	4608.0	4457.5	2445.1	945.7
80°	80.5	71.0	75.7	139.2	293.4	2055.1	1476.7	1868.6	1593.1	414.6	261.3
82.5°	42.6	36.0	43.5	114.5	204.5	1280.7	1479.5	903.1	715.6	140.1	178.0
85°	15.1	12.3	20.8	78.6	136.3	392.8	1371.6	759.2	596.4	68.2	135.4
87.5°	2.8	2.8	8.5	32.2	54.9	120.2	811.2	450.6	302.0	40.7	92.8
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°	3579.1	3579.1	3579.1	3579.1	3579.1	3579.1	3579.1	3579.1	3579.1	3579.1	3579.1
2.5°	3567.7	3527.0	3472.1	3404.9	3325.4	3255.4	3203.3	3149.3	3138.0	3119.0	3116.2
5°	3544.1	3474.0	3337.7	3181.5	3014.9	2864.4	2742.3	2633.4	2585.2	2543.5	2538.8
7.5°	3509.0	3404.0	3172.1	2920.3	2659.9	2423.3	2222.6	2080.6	1950.0	1887.5	1878.1
10°	3468.3	3317.8	2985.6	2636.3	2276.6	1942.4	1644.2	1394.3	1242.9	1153.0	1141.6
12.5°	3430.5	3233.6	2795.3	2341.9	1863.9	1417.1	1033.7	795.1	636.1	571.7	564.2
15°	3412.5	3165.4	2617.3	2040.9	1432.2	902.1	565.1	437.3	385.3	370.1	369.2
17.5°	3410.6	3107.7	2443.2	1729.4	1003.4	524.4	368.2	336.0	325.6	321.8	321.8
20°	3409.7	3052.8	2269.0	1406.6	637.1	349.3	306.7	299.1	291.6	286.8	286.8
22.5°	3420.1	3003.6	2087.3	1077.2	401.4	283.0	269.8	262.2	252.7	246.1	245.2
25°	3430.5	2965.7	1901.7	766.7	290.6	246.1	232.9	222.5	209.2	200.7	199.7
27.5°	3432.4	2918.4	1702.9	513.1	243.3	214.9	197.8	181.7	166.6	158.1	157.1
30°	3404.0	2838.9	1482.4	346.5	214.9	186.5	163.8	146.7	132.5	125.9	125.9
32.5°	3348.1	2740.4	1240.0	261.3	191.2	160.0	135.4	119.3	109.8	107.0	106.0
35°	3298.0	2634.4	991.1	221.5	171.3	135.4	110.8	100.3	94.7	93.7	92.8
37.5°	3268.6	2549.2	757.3	200.7	152.4	113.6	93.7	86.1	83.3	81.4	82.4
40°	3291.3	2478.2	559.4	183.6	133.5	94.7	79.5	75.7	72.9	71.9	71.9
42.5°	3390.7	2465.9	415.6	168.5	115.5	78.6	69.1	66.3	64.4	63.4	64.4
45°	3652.0	2541.6	322.8	154.3	97.5	66.3	58.7	57.7	56.8	56.8	56.8
47.5°	4044.8	2697.8	268.8	138.2	81.4	56.8	51.1	50.2	49.2	50.2	50.2
50°	4710.3	2983.7	240.4	122.1	67.2	48.3	43.5	43.5	43.5	43.5	44.5
52.5°	5722.2	3546.0	221.5	106.0	54.9	40.7	36.9	36.9	37.9	37.9	38.8
55°	6849.6	4291.9	204.5	89.9	46.4	34.1	30.3	31.2	32.2	33.1	33.1
57.5°	8072.6	5118.3	190.3	73.8	39.8	27.5	25.6	26.5	27.5	29.3	29.3
60°	9548.4	6012.8	169.4	57.7	33.1	21.8	19.9	21.8	24.6	26.5	27.5
62.5°	11168.9	6878.0	142.9	45.4	27.5	17.0	16.1	19.9	23.7	25.6	26.5
65°	12276.5	7149.7	109.8	36.9	20.8	12.3	13.3	18.0	22.7	25.6	25.6
67°	11827.8	6482.3	89.9	31.2	17.0	9.5	12.3	18.0	22.7	24.6	25.6
67.5°	11516.3	6221.1	86.1	30.3	16.1	9.5	12.3	18.0	22.7	25.6	25.6
70°	9370.4	4673.4	71.9	22.7	13.3	8.5	10.4	17.0	21.8	24.6	24.6
72.5°	6510.7	2881.4	64.4	16.1	11.4	7.6	9.5	16.1	20.8	23.7	24.6
75°	3095.4	1043.2	54.9	12.3	10.4	6.6	8.5	16.1	20.8	23.7	23.7
77.5°	631.4	242.3	44.5	10.4	8.5	6.6	7.6	15.1	19.9	22.7	22.7
80°	207.3	93.7	33.1	9.5	8.5	6.6	7.6	14.2	19.9	21.8	22.7
82.5°	149.6	47.3	21.8	9.5	8.5	6.6	6.6	14.2	18.9	21.8	21.8
85°	114.5	33.1	14.2	9.5	8.5	6.6	6.6	13.3	18.0	20.8	20.8
87.5°	75.7	13.3	11.4	9.5	8.5	6.6	6.6	13.3	17.0	19.9	20.8
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)