

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: P193574

Luminaire Tested: **GLEON-AF-06-LED-E1-SL2-8030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193574
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-06-LED-E1-SL2-8030-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 615mA 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: 15854 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 193
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

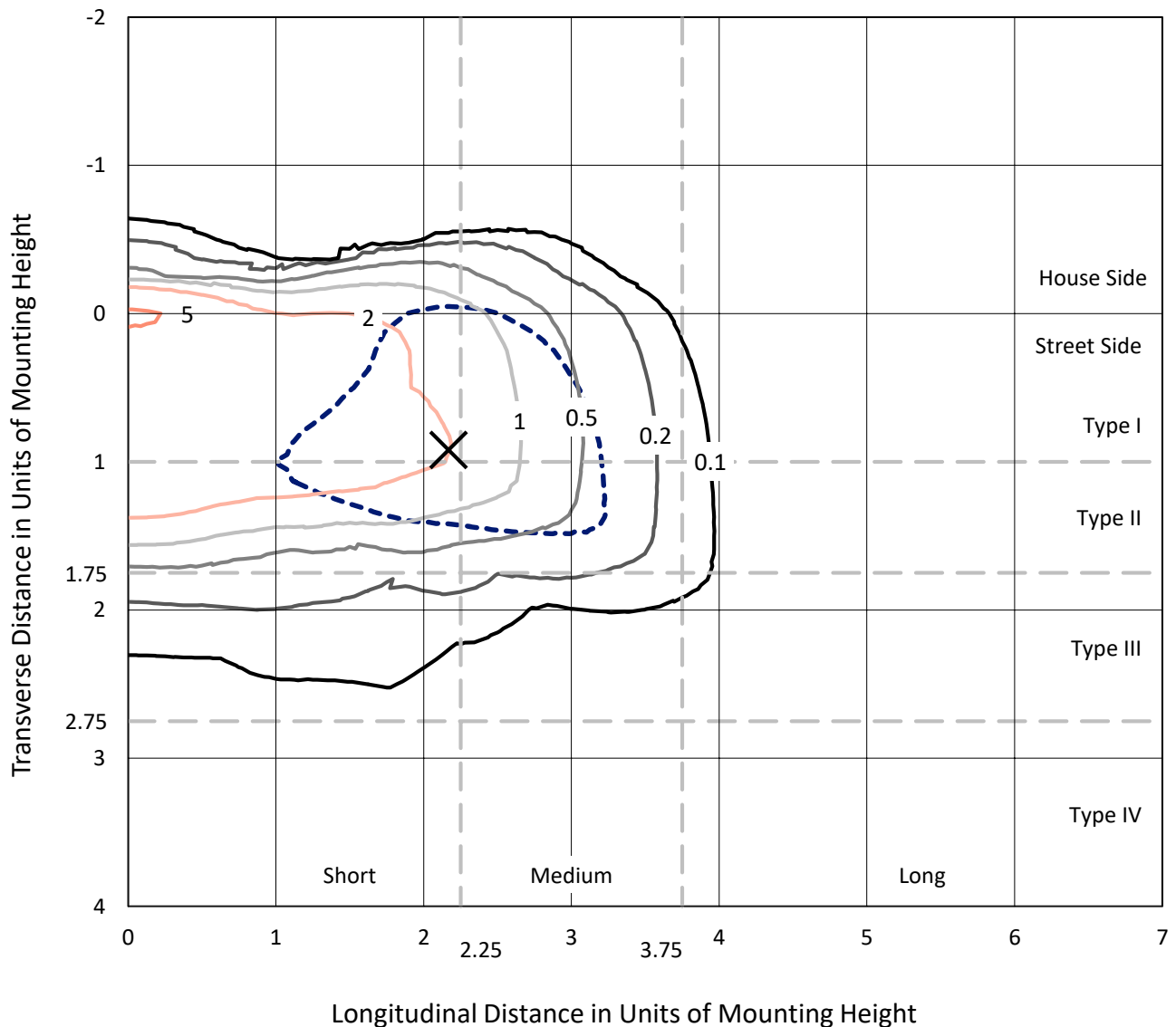


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

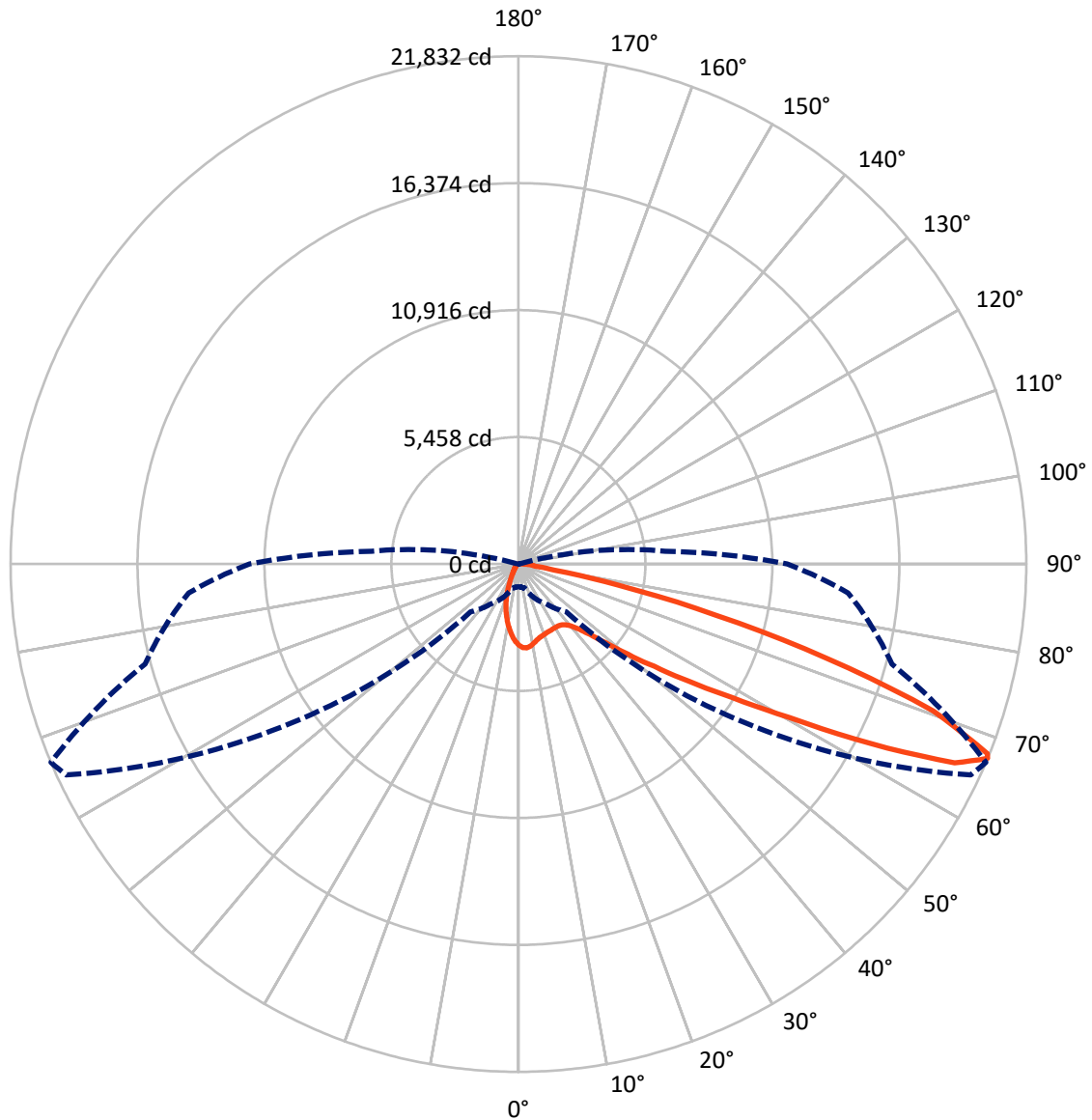


Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type II - Short - Semi-Cutoff

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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	1646.1	0.0	1646.1
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	14207.9	0.0	14207.9
	% Fixture	89.6	0.0	89.6
Total	Lumens	15854.0	0.0	15854.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.5	1.8
10°-20°	605.5	3.8
20°-30°	880.4	5.6
30°-40°	1373.4	8.7
40°-50°	2432.9	15.3
50°-60°	3849.9	24.3
60°-70°	4409.5	27.8
70°-80°	1829.0	11.5
80°-90°	188.9	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°	15854.0	100.0
0°-180°	15854.0	100.0

Coefficient of Utilization



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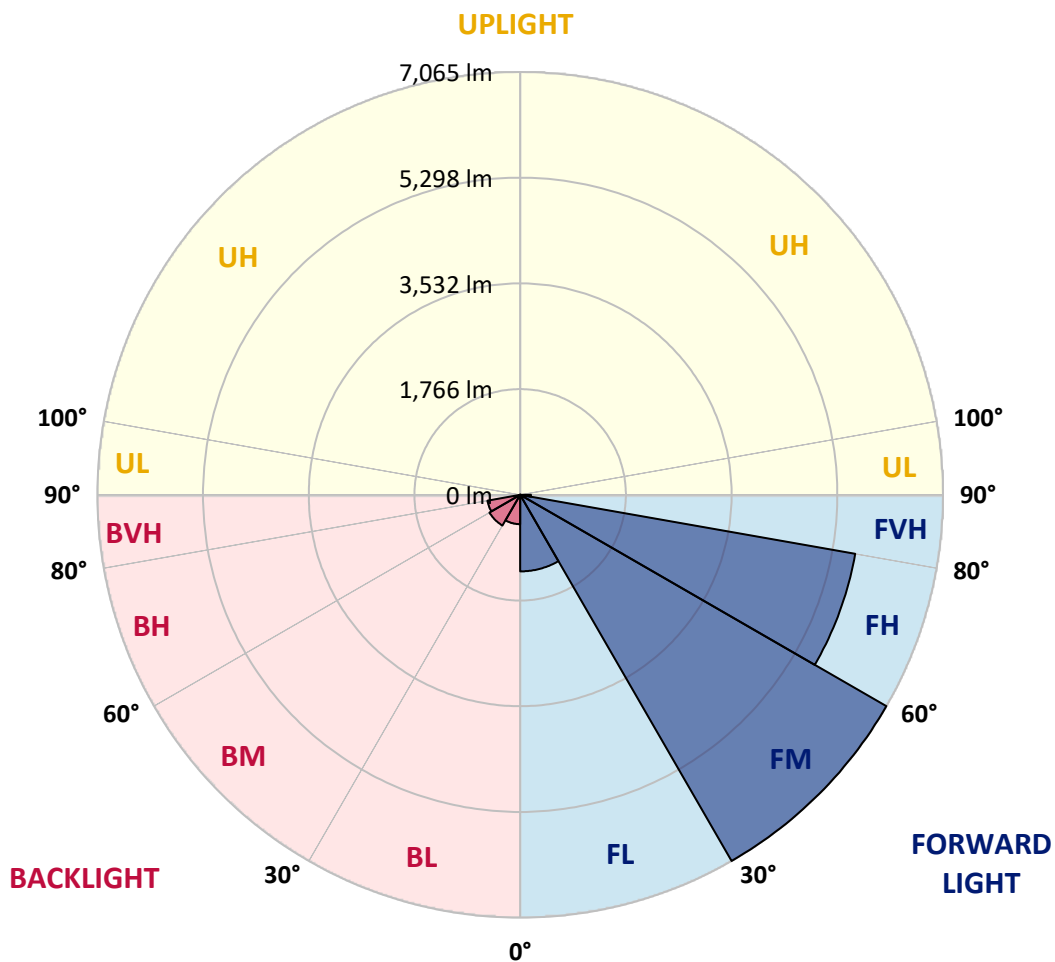
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1279.2	8.1			
FM	(30°-60°)	7064.6	44.6			
FH	(60°-80°)	5683.7	35.9			G3/7500
FVH	(80°-90°)	180.4	1.1			G2/225
BL	(0°-30°)	491.2	3.1	B1/500		
BM	(30°-60°)	591.6	3.7	B1/1000		
BH	(60°-80°)	554.8	3.5	B2/1000		G2/1000
BVH	(80°-90°)	8.5	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°	3496.4	3496.4	3496.4	3496.4	3496.4	3496.4	3496.4	3496.4	3496.4	3496.4	3496.4
2.5°	3614.8	3622.2	3621.2	3626.8	3639.7	3640.6	3627.7	3602.7	3597.2	3564.8	3508.4
5°	3333.6	3354.9	3367.9	3420.6	3479.7	3551.0	3604.6	3624.0	3621.2	3598.1	3513.0
7.5°	3012.8	3034.0	3048.8	3110.8	3189.4	3311.4	3451.1	3565.7	3575.9	3600.9	3509.3
10°	2799.1	2802.8	2823.2	2882.4	2964.7	3089.5	3256.0	3456.6	3487.1	3578.7	3500.1
12.5°	2623.5	2626.2	2653.0	2716.8	2804.7	2930.5	3105.2	3337.3	3384.5	3551.0	3498.2
15°	2498.6	2508.8	2532.8	2599.4	2692.8	2817.6	2997.0	3249.5	3305.9	3540.8	3514.9
17.5°	2457.0	2468.1	2475.5	2523.6	2608.7	2730.7	2914.7	3192.2	3256.0	3546.3	3547.3
20°	2500.5	2508.8	2492.1	2504.2	2556.9	2666.0	2845.4	3143.1	3219.0	3552.8	3588.9
22.5°	2662.3	2666.0	2620.7	2568.0	2558.7	2618.8	2790.8	3104.3	3185.7	3570.4	3637.9
25°	2939.7	2933.2	2859.3	2745.5	2638.2	2610.5	2758.5	3080.3	3169.0	3588.9	3688.7
27.5°	3274.5	3283.7	3182.0	3016.5	2812.1	2666.0	2753.8	3070.1	3161.6	3601.8	3733.1
30°	3681.3	3694.3	3577.8	3369.7	3076.6	2802.8	2796.4	3068.2	3157.0	3593.5	3736.8
32.5°	4096.5	4112.3	4020.7	3806.2	3429.8	3032.2	2892.5	3088.6	3166.3	3564.8	3715.6
35°	4531.2	4553.4	4492.3	4308.3	3908.8	3363.2	3061.8	3150.5	3209.7	3562.0	3694.3
37.5°	5131.3	5151.7	5037.0	4841.9	4488.6	3807.1	3333.6	3267.1	3312.4	3606.4	3699.8
40°	6027.4	6024.6	5728.7	5430.0	5125.8	4371.2	3715.6	3477.9	3501.0	3740.5	3768.3
42.5°	7003.9	6999.3	6561.9	6107.8	5833.2	5065.7	4217.7	3842.2	3826.5	3987.4	3945.8
45°	7756.6	7755.7	7398.7	6887.4	6684.9	5862.8	4866.8	4349.0	4324.9	4388.8	4273.2
47.5°	8077.5	8083.0	7903.6	7543.9	7629.0	6941.0	5685.2	5083.2	5047.2	5021.3	4845.6
50°	7827.8	7838.9	7853.7	7783.4	8321.6	8390.0	6782.9	6118.0	6100.4	5984.8	5710.2
52.5°	7012.2	7068.6	7242.5	7465.3	8562.0	9780.8	8503.8	7403.4	7309.0	7186.1	6883.7
55°	5638.1	5700.0	6030.1	6571.1	8204.2	10694.5	10915.5	9060.5	8903.3	8536.2	8099.7
57.5°	3731.3	3827.4	4306.5	4994.5	7164.8	10841.5	13321.6	11360.3	10812.8	9807.7	9315.7
60°	2055.7	2148.1	2667.8	3291.1	5174.8	10114.7	14939.9	14354.5	13387.3	11229.0	10792.5
62.5°	1266.0	1315.9	1699.6	2279.5	3103.4	7983.2	15274.6	18117.2	16997.4	13059.0	12576.3
65°	1008.0	1029.2	1216.9	1863.3	2224.9	4748.5	14193.6	20985.8	20612.2	15274.6	14173.3
67°	978.4	986.7	1075.5	1599.8	2097.3	2911.0	11891.1	21452.7	21831.9	16615.5	14223.2
67.5°	984.8	994.1	1078.2	1526.7	2093.6	2675.2	11097.6	21268.7	21747.7	16721.8	14002.2
70°	949.7	978.4	1234.5	1525.8	1990.9	2223.0	6646.0	18428.0	18926.4	15537.3	11880.9
72.5°	336.6	338.5	533.6	1234.5	2164.8	2247.1	3337.3	13509.3	13878.3	11885.5	8565.7
75°	199.7	170.1	177.5	351.4	2068.6	2182.4	1925.3	8632.3	8770.1	6810.6	4337.9
77.5°	137.8	120.2	123.9	155.4	787.9	2151.8	1529.5	4501.6	4354.5	2388.6	923.8
80°	78.6	69.4	74.0	135.9	286.7	2007.6	1442.6	1825.4	1556.3	405.0	255.2
82.5°	41.6	35.1	42.5	111.9	199.7	1251.2	1445.3	882.2	699.1	136.9	173.8
85°	14.8	12.0	20.3	76.8	133.2	383.8	1339.9	741.6	582.6	66.6	132.2
87.5°	2.8	2.8	8.3	31.4	53.6	117.4	792.5	440.2	295.0	39.8	90.6
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°	3496.4	3496.4	3496.4	3496.4	3496.4	3496.4	3496.4	3496.4	3496.4	3496.4	3496.4
2.5°	3485.3	3445.5	3391.9	3326.2	3248.6	3180.1	3129.3	3076.6	3065.5	3047.0	3044.2
5°	3462.2	3393.7	3260.6	3108.0	2945.3	2798.2	2678.9	2572.6	2525.4	2484.7	2480.1
7.5°	3428.0	3325.3	3098.8	2852.8	2598.5	2367.3	2171.3	2032.5	1904.9	1843.9	1834.7
10°	3388.2	3241.2	2916.6	2575.4	2224.0	1897.5	1606.3	1362.1	1214.2	1126.3	1115.2
12.5°	3351.2	3158.9	2730.7	2287.8	1820.8	1384.3	1009.8	776.8	621.4	558.5	551.1
15°	3333.6	3092.3	2556.9	1993.7	1399.1	881.3	552.1	427.2	376.4	361.6	360.6
17.5°	3331.8	3035.9	2386.7	1689.5	980.2	512.3	359.7	328.3	318.1	314.4	314.4
20°	3330.9	2982.2	2216.6	1374.1	622.3	341.2	299.6	292.2	284.8	280.2	280.2
22.5°	3341.0	2934.2	2039.0	1052.3	392.1	276.5	263.5	256.1	246.9	240.4	239.5
25°	3351.2	2897.2	1857.8	749.0	283.9	240.4	227.5	217.3	204.4	196.0	195.1
27.5°	3353.1	2850.9	1663.6	501.2	237.7	209.9	193.3	177.5	162.8	154.4	153.5
30°	3325.3	2773.3	1448.1	338.5	209.9	182.2	160.0	143.3	129.5	123.0	123.0
32.5°	3270.8	2677.1	1211.4	255.2	186.8	156.3	132.2	116.5	107.3	104.5	103.6
35°	3221.7	2573.5	968.2	216.4	167.4	132.2	108.2	98.0	92.5	91.5	90.6
37.5°	3193.1	2490.3	739.8	196.0	148.9	111.0	91.5	84.2	81.4	79.5	80.5
40°	3215.3	2420.9	546.5	179.4	130.4	92.5	77.7	74.0	71.2	70.3	70.3
42.5°	3312.4	2408.9	406.0	164.6	112.8	76.8	67.5	64.7	62.9	62.0	62.9
45°	3567.6	2482.9	315.3	150.7	95.2	64.7	57.3	56.4	55.5	55.5	55.5
47.5°	3951.4	2635.5	262.6	135.0	79.5	55.5	49.9	49.0	48.1	49.0	49.0
50°	4601.4	2914.7	234.9	119.3	65.7	47.2	42.5	42.5	42.5	42.5	43.5
52.5°	5590.0	3464.0	216.4	103.6	53.6	39.8	36.1	36.1	37.0	37.0	37.9
55°	6691.3	4192.7	199.7	87.8	45.3	33.3	29.6	30.5	31.4	32.4	32.4
57.5°	7886.1	5000.0	185.9	72.1	38.8	26.8	25.0	25.9	26.8	28.7	28.7
60°	9327.7	5873.9	165.5	56.4	32.4	21.3	19.4	21.3	24.0	25.9	26.8
62.5°	10910.9	6719.1	139.6	44.4	26.8	16.6	15.7	19.4	23.1	25.0	25.9
65°	11992.8	6984.5	107.3	36.1	20.3	12.0	12.9	17.6	22.2	25.0	25.0
67°	11554.5	6332.5	87.8	30.5	16.6	9.2	12.0	17.6	22.2	24.0	25.0
67.5°	11250.2	6077.3	84.2	29.6	15.7	9.2	12.0	17.6	22.2	25.0	25.0
70°	9153.9	4565.4	70.3	22.2	12.9	8.3	10.2	16.6	21.3	24.0	24.0
72.5°	6360.3	2814.9	62.9	15.7	11.1	7.4	9.2	15.7	20.3	23.1	24.0
75°	3023.9	1019.0	53.6	12.0	10.2	6.5	8.3	15.7	20.3	23.1	23.1
77.5°	616.8	236.7	43.5	10.2	8.3	6.5	7.4	14.8	19.4	22.2	22.2
80°	202.5	91.5	32.4	9.2	8.3	6.5	7.4	13.9	19.4	21.3	22.2
82.5°	146.1	46.2	21.3	9.2	8.3	6.5	6.5	13.9	18.5	21.3	21.3
85°	111.9	32.4	13.9	9.2	8.3	6.5	6.5	12.9	17.6	20.3	20.3
87.5°	74.0	12.9	11.1	9.2	8.3	6.5	6.5	12.9	16.6	19.4	20.3
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)