

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: P200138

Luminaire Tested: **GPC-AF-02-LED-E1-SL3-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200138
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GPC-AF-02-LED-E1-SL3-1200
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13940.8 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B2 - U0 - G3

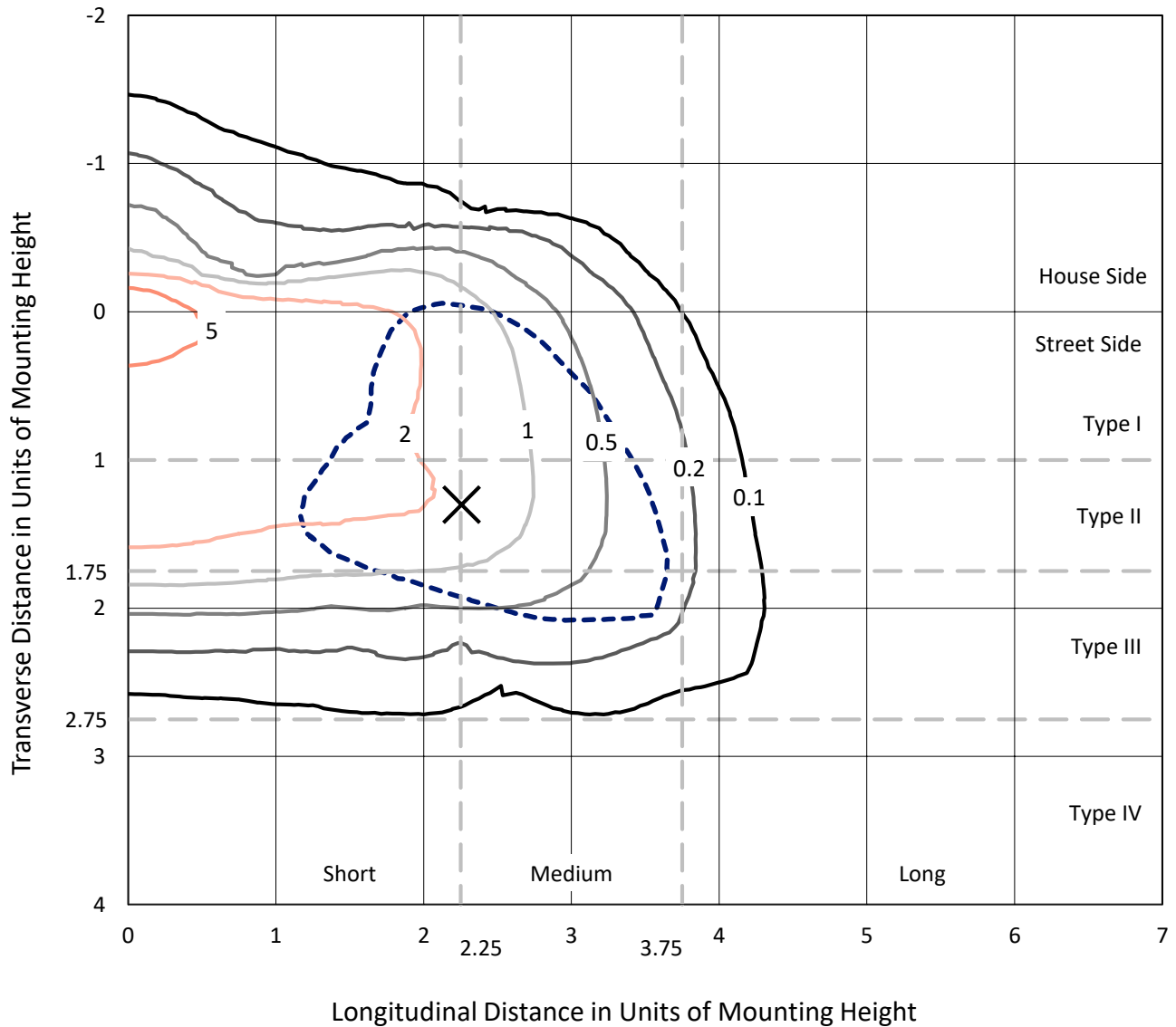
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

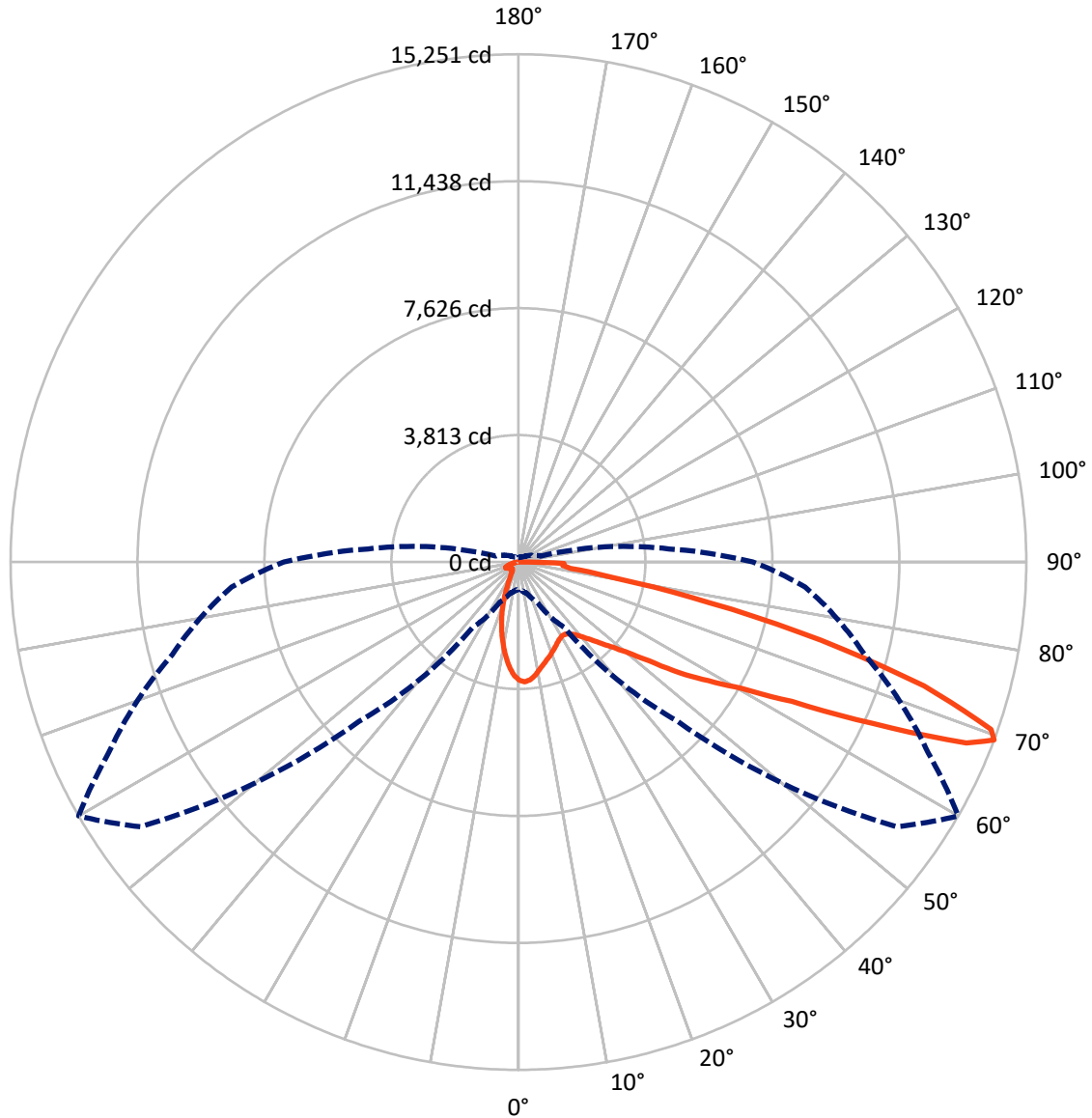
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.9 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1983.3	0.0	1983.3
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	11957.4	0.0	11957.4
	% Fixture	85.8	0.0	85.8
Total	Lumens	13940.8	0.0	13940.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.4	2.2
10°-20°	639.9	4.6
20°-30°	815.4	5.8
30°-40°	1121.0	8.0
40°-50°	1818.9	13.0
50°-60°	2917.0	20.9
60°-70°	3882.3	27.8
70°-80°	2096.1	15.0
80°-90°	349.8	2.5
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°	13940.8	100.0
0°-180°	13940.8	100.0



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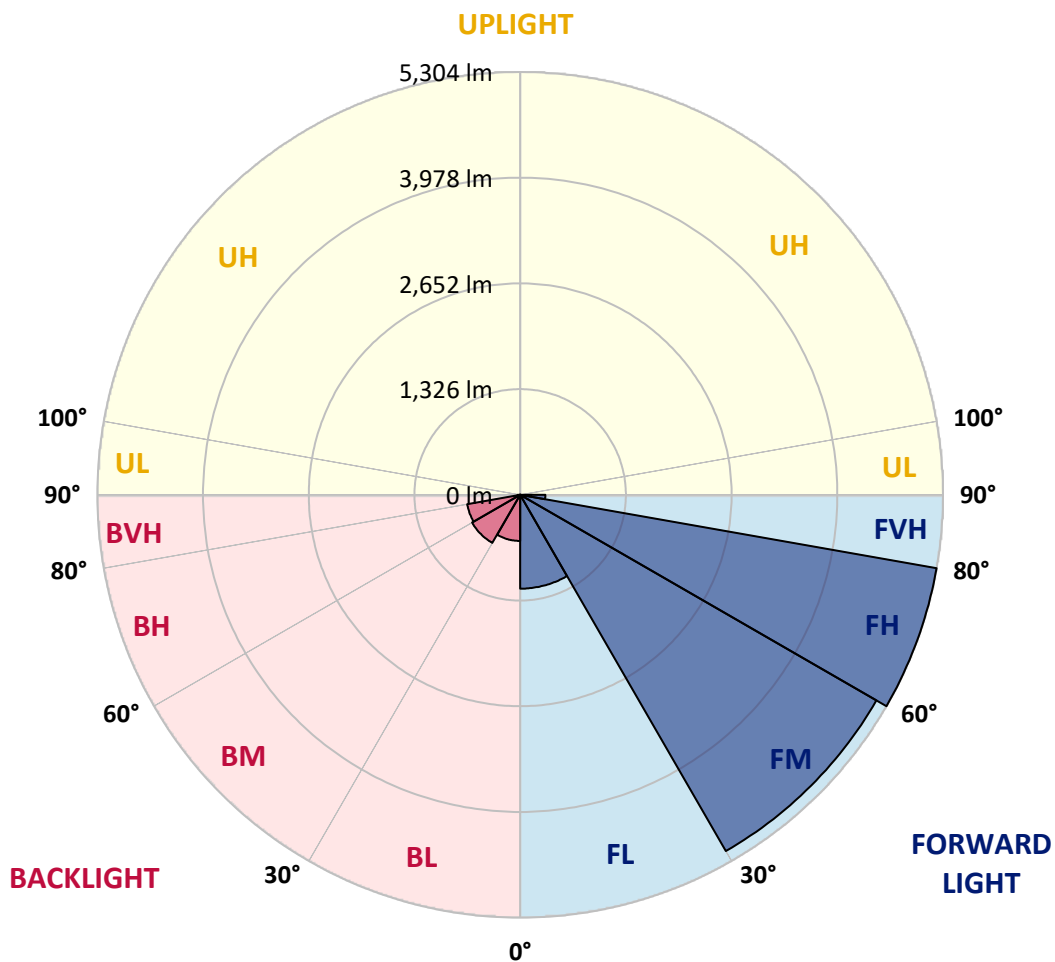
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1177.1	8.4			
FM	(30°-60°)	5160.1	37.0			
FH	(60°-80°)	5304.2	38.0			G3/7500
FVH	(80°-90°)	316.1	2.3			G3/500
BL	(0°-30°)	578.6	4.2	B2/1000		
BM	(30°-60°)	696.8	5.0	B1/1000		
BH	(60°-80°)	674.3	4.8	B2/1000		G2/1000
BVH	(80°-90°)	33.7	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	3552.3	3552.3	3552.3	3552.3	3552.3	3552.3	3552.3	3552.3	3552.3	3552.3	3552.3
2.5°	3625.0	3633.1	3629.7	3627.8	3633.8	3624.4	3604.9	3598.7	3589.3	3567.1	3529.4
5°	3489.0	3513.2	3511.9	3530.1	3560.4	3568.5	3559.8	3561.1	3543.6	3516.0	3453.3
7.5°	3254.0	3264.1	3269.5	3309.2	3364.5	3408.9	3446.6	3458.7	3450.6	3427.1	3346.3
10°	3011.6	3019.6	3032.4	3078.9	3148.9	3210.2	3281.6	3322.6	3340.2	3336.1	3245.9
12.5°	2803.5	2811.6	2828.4	2880.9	2964.4	3039.8	3143.5	3194.8	3236.5	3261.4	3164.4
15°	2616.9	2634.4	2650.6	2711.2	2804.8	2903.9	3021.0	3085.6	3150.3	3206.1	3092.4
17.5°	2471.4	2488.9	2498.5	2553.6	2653.3	2774.5	2911.9	2988.0	3068.8	3160.4	3021.0
20°	2387.3	2395.3	2391.4	2422.3	2511.9	2640.5	2803.5	2891.7	2989.4	3117.2	2949.6
22.5°	2363.7	2364.4	2349.6	2346.2	2404.1	2512.6	2687.6	2794.7	2914.6	3089.0	2888.3
25°	2420.9	2419.0	2378.6	2345.5	2351.6	2414.9	2575.9	2700.5	2852.0	3083.0	2841.1
27.5°	2548.3	2554.3	2494.4	2432.4	2371.1	2369.2	2491.0	2622.3	2800.7	3110.6	2821.0
30°	2726.7	2736.8	2672.9	2594.0	2478.9	2383.9	2458.0	2575.9	2769.1	3167.8	2817.6
32.5°	2922.0	2932.8	2884.3	2801.5	2650.6	2475.5	2480.9	2579.9	2767.8	3248.0	2840.5
35°	3130.1	3142.2	3117.2	3047.3	2879.6	2644.5	2568.4	2645.2	2811.6	3370.5	2901.8
37.5°	3362.4	3381.3	3388.0	3321.3	3142.2	2867.4	2711.8	2769.1	2910.5	3540.8	3014.2
40°	3697.1	3723.3	3721.4	3625.7	3443.3	3168.5	2933.4	2948.2	3064.8	3768.4	3194.1
42.5°	4338.2	4343.6	4175.9	3967.8	3774.6	3485.0	3194.8	3182.6	3277.5	4056.7	3458.7
45°	5153.7	5131.5	4758.5	4356.4	4120.7	3848.6	3534.8	3475.6	3547.6	4408.2	3790.0
47.5°	5830.5	5779.4	5308.0	4753.0	4487.1	4243.9	3934.2	3830.4	3870.1	4806.9	4218.3
50°	6065.6	6027.1	5636.6	5083.0	4833.9	4726.1	4425.8	4278.9	4289.7	5282.3	4720.0
52.5°	6015.1	6009.6	5749.1	5300.5	5158.4	5232.5	5122.1	4923.5	4818.4	5810.4	5261.4
55°	5895.9	5907.3	5813.0	5553.7	5529.5	5721.5	6031.8	5885.0	5558.4	6343.0	5821.1
57.5°	5481.7	5511.4	5718.7	5872.2	6126.9	6412.4	6764.6	6722.8	6355.1	6918.7	6486.4
60°	4416.3	4485.0	5041.3	5810.4	6741.7	7634.6	7792.2	7695.2	7176.7	7633.3	7365.2
62.5°	3094.4	3165.7	3827.1	5030.5	6640.7	9015.2	9629.3	9211.2	8356.6	8685.9	8502.7
65°	1656.7	1690.9	2196.1	3490.4	5606.3	9300.1	12314.3	11677.9	10224.6	9983.5	9475.8
67.5°	913.8	932.7	1126.0	1762.3	3590.7	8189.5	14024.8	14505.5	12559.4	10847.6	9298.6
69°	826.3	843.8	970.4	1334.7	2402.8	6771.3	13857.7	15251.1	13583.0	10762.1	8644.1
70°	808.1	824.3	938.0	1230.3	1944.8	5581.3	13298.2	15060.5	13826.8	10455.6	8073.0
72.5°	727.3	744.8	855.3	1105.1	1662.0	2782.6	10533.7	12733.8	12553.3	9065.7	6123.5
75°	678.1	694.3	881.5	1082.2	1591.3	1761.0	6944.4	9384.9	9227.9	6341.7	3301.8
77.5°	290.2	288.9	408.8	915.8	1614.8	1705.2	3731.4	5862.8	5349.0	2710.5	948.2
80°	194.0	190.6	194.0	269.3	1480.8	1714.6	1955.0	2975.9	2247.9	690.9	467.4
82.5°	167.0	164.3	170.4	164.3	520.6	1957.0	1662.0	1582.5	1068.7	392.6	231.7
85°	112.4	107.7	146.8	147.5	245.8	1738.8	1872.1	1336.8	864.7	233.0	114.5
87.5°	53.9	52.5	85.5	104.3	144.1	706.4	2100.4	1369.7	872.1	119.2	54.5
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°	3552.3	3552.3	3552.3	3552.3	3552.3	3552.3	3552.3	3552.3	3552.3	3552.3	3552.3
2.5°	3517.9	3490.4	3463.4	3431.1	3397.4	3359.7	3340.9	3322.0	3317.3	3311.9	3293.1
5°	3421.0	3382.0	3314.6	3240.5	3162.5	3086.3	3028.4	2992.0	2964.4	2950.3	2925.3
7.5°	3295.7	3238.5	3120.6	2992.7	2861.4	2741.5	2637.8	2572.5	2510.5	2481.6	2448.5
10°	3176.6	3091.1	2907.8	2719.3	2530.8	2349.6	2179.2	2058.7	1951.6	1891.6	1849.2
12.5°	3074.2	2957.0	2703.1	2447.9	2189.3	1931.4	1676.2	1475.5	1307.8	1219.6	1174.4
15°	2974.5	2833.1	2508.5	2184.6	1852.6	1501.7	1166.4	938.8	800.0	744.8	726.0
17.5°	2884.3	2703.1	2313.2	1919.3	1505.1	1080.8	783.9	658.6	605.4	587.3	581.1
20°	2786.6	2571.8	2110.6	1641.8	1142.8	755.6	612.1	556.9	535.4	530.0	527.3
22.5°	2692.4	2442.5	1916.6	1344.9	820.9	583.2	525.9	503.1	499.7	504.4	504.4
25°	2612.2	2326.7	1707.1	1034.4	602.7	490.9	470.8	465.3	478.1	495.6	499.0
27.5°	2552.3	2231.8	1484.2	763.6	480.2	427.0	426.3	435.1	466.7	500.3	507.1
30°	2511.2	2141.4	1245.9	550.9	402.7	375.7	386.6	405.4	451.8	499.7	512.5
32.5°	2490.4	2074.9	997.4	426.3	344.8	330.0	348.1	371.0	416.9	461.2	478.1
35°	2506.5	2025.6	763.0	355.6	304.4	293.0	311.8	334.0	361.0	379.8	392.6
37.5°	2567.1	2006.1	575.8	318.5	276.8	266.0	280.8	293.6	304.4	309.7	315.9
40°	2697.7	2027.0	461.2	299.7	261.3	247.9	253.9	258.6	265.4	270.7	273.4
42.5°	2890.3	2089.7	413.5	292.3	253.2	233.6	232.3	234.4	243.2	253.2	255.2
45°	3159.7	2200.1	410.1	297.0	249.2	222.2	216.1	218.9	232.3	247.9	250.5
47.5°	3503.8	2368.4	437.0	311.1	252.6	216.1	206.0	209.4	226.3	247.1	250.5
50°	3920.7	2603.5	482.2	332.0	267.4	217.5	202.7	204.7	222.2	245.1	248.5
52.5°	4413.0	2936.8	531.3	352.2	282.8	226.3	205.4	200.7	216.9	237.0	241.1
55°	4960.5	3364.5	581.9	370.4	290.9	237.0	210.8	195.3	206.7	223.6	227.0
57.5°	5632.6	3962.4	669.4	387.9	296.3	244.5	216.1	189.9	194.0	206.0	208.8
60°	6542.3	4808.3	823.6	416.9	308.4	247.1	215.5	185.2	181.2	187.9	189.2
62.5°	7632.6	5726.8	952.3	453.2	328.7	249.2	211.4	181.8	170.4	170.4	171.8
65°	8279.8	5972.6	880.9	483.5	345.5	247.1	206.7	178.5	162.3	154.9	155.6
67.5°	7731.0	5252.8	754.9	489.6	344.8	237.7	199.4	172.4	154.3	142.8	142.1
69°	7043.3	4532.2	698.4	473.4	328.7	225.6	189.9	165.6	148.1	136.1	135.3
70°	6489.1	4092.4	661.3	455.9	311.1	216.9	182.5	159.6	143.4	132.0	130.6
72.5°	4718.1	2681.6	565.0	391.9	256.6	181.8	157.5	140.0	128.0	121.2	119.9
75°	2357.7	1278.8	458.6	317.8	196.6	145.5	129.3	117.1	111.1	109.8	109.0
77.5°	774.5	585.8	328.0	237.0	146.2	113.9	104.3	95.6	94.3	98.3	97.0
80°	425.6	340.7	208.1	156.9	99.6	83.5	82.1	77.4	79.5	86.2	84.8
82.5°	216.9	177.1	128.6	94.3	67.3	59.9	65.4	62.6	65.4	71.4	70.7
85°	107.1	97.0	81.5	57.3	44.4	38.4	46.4	48.5	49.8	54.5	54.5
87.5°	62.0	57.3	43.1	26.9	22.2	20.2	26.9	26.3	31.0	33.7	33.0
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)