

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: P270212

Luminaire Tested: **GWC-AF-02-LED-E1-SL3-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270212
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: GWC-AF-02-LED-E1-SL3-7027-1200
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 2700K, 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: 11840.6 lumens
Efficiency: N/A
Efficacy: 91.8 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

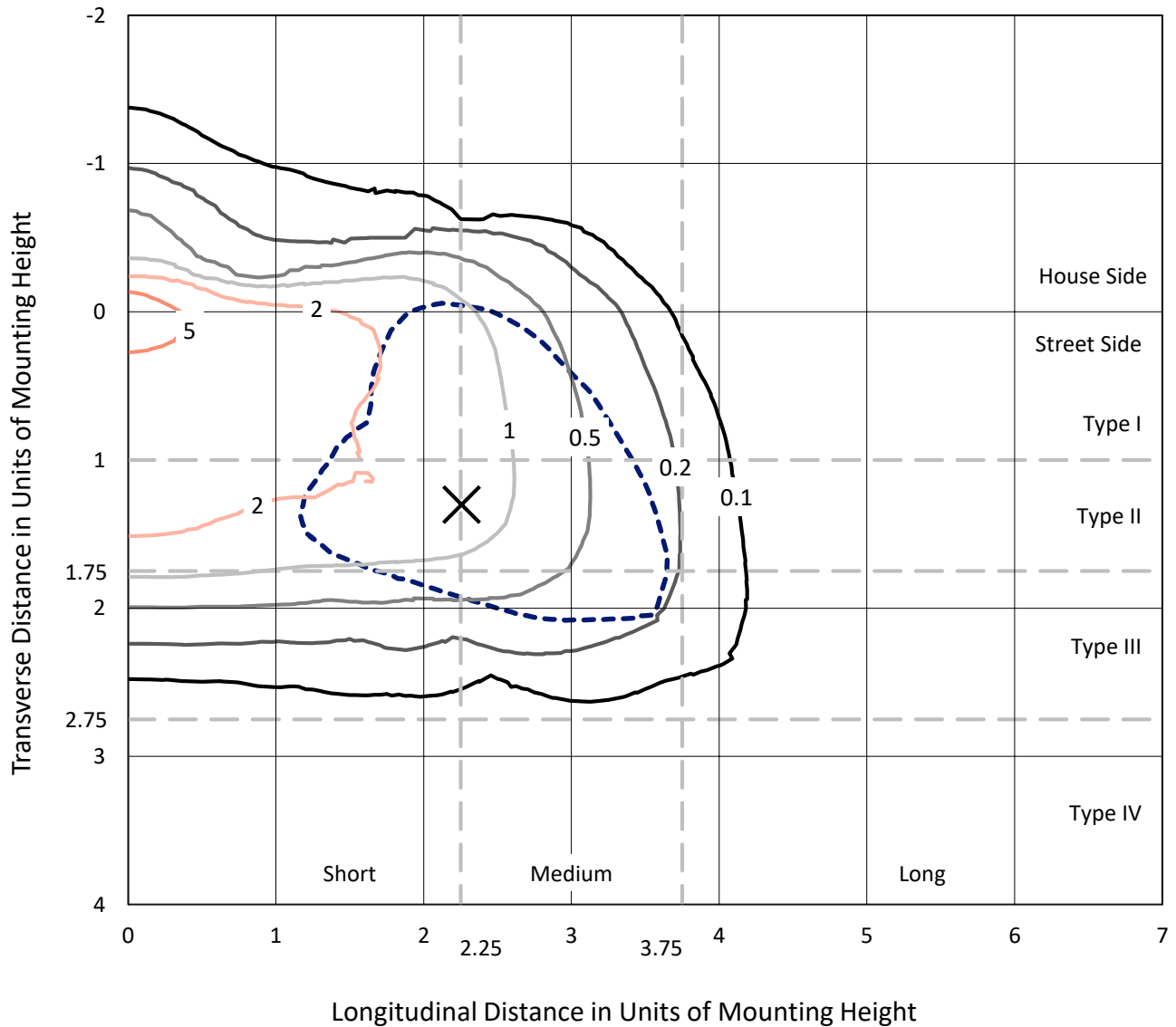
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

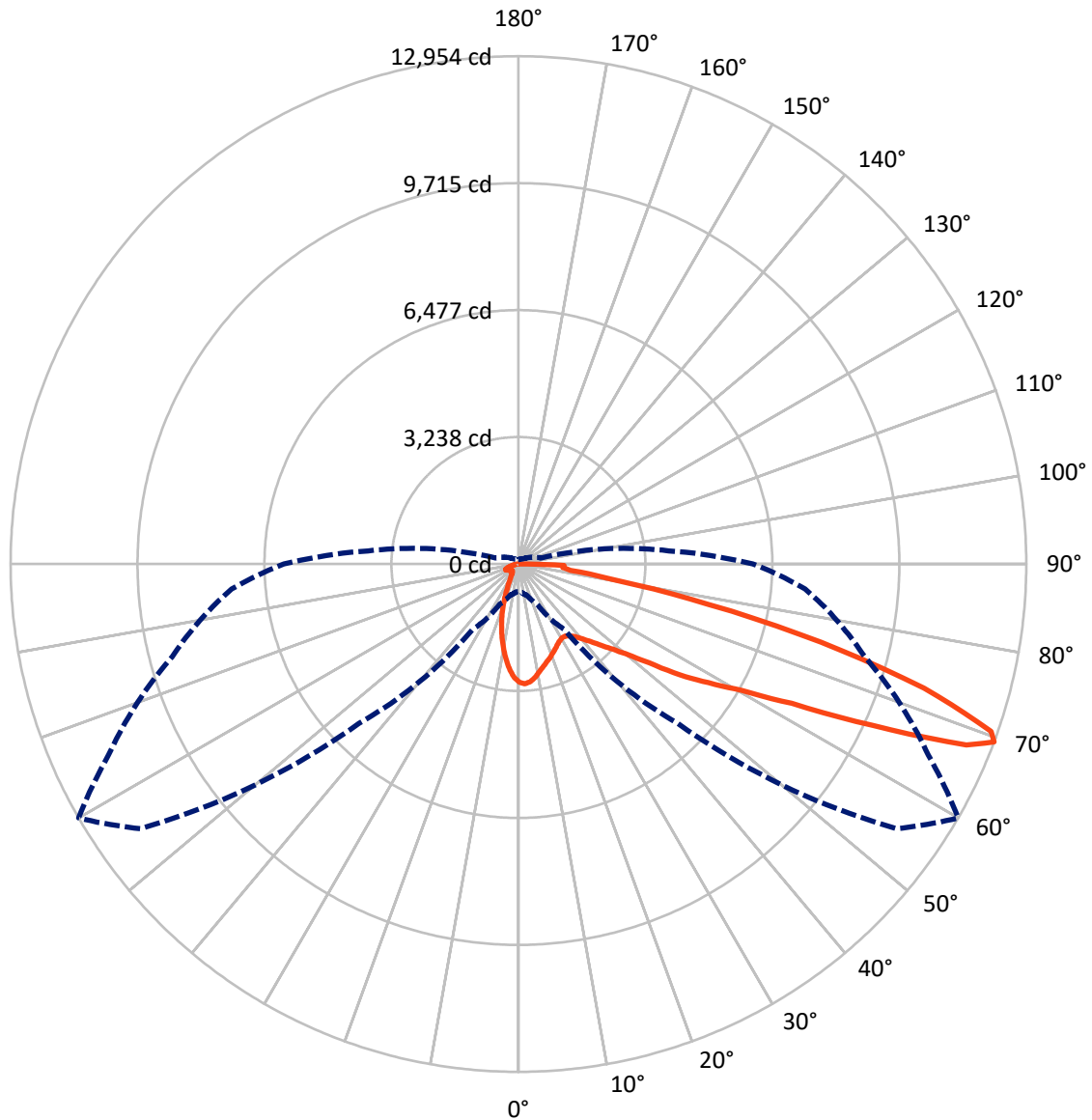
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.5 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	1684.5	0.0	1684.5
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	10156.0	0.0	10156.0
	% Fixture	85.8	0.0	85.8
Total	Lumens	11840.6	0.0	11840.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.1	2.2
10°-20°	543.5	4.6
20°-30°	692.6	5.8
30°-40°	952.1	8.0
40°-50°	1544.9	13.0
50°-60°	2477.6	20.9
60°-70°	3297.4	27.8
70°-80°	1780.4	15.0
80°-90°	297.1	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°	11840.6	100.0
0°-180°	11840.6	100.0

Coefficient of Utilization



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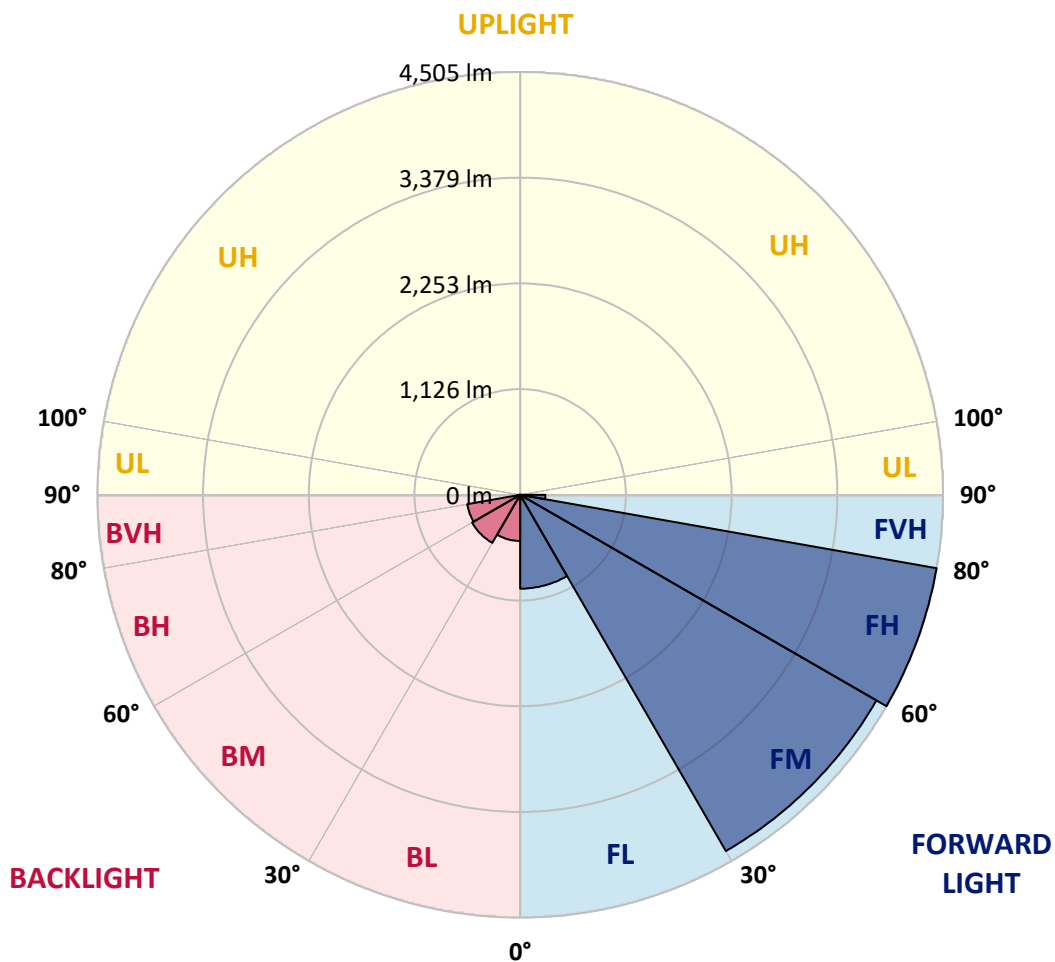
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	999.8	8.4			
FM (30°-60°)	4382.7	37.0			
FH (60°-80°)	4505.1	38.0			G2/5000
FVH (80°-90°)	268.5	2.3			G3/500
BL (0°-30°)	491.4	4.2	B1/500		
BM (30°-60°)	591.8	5.0	B1/1000		
BH (60°-80°)	572.7	4.8	B2/1000		G2/1000
BVH (80°-90°)	28.6	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°	3017.1	3017.1	3017.1	3017.1	3017.1	3017.1	3017.1	3017.1	3017.1	3017.1	3017.1
2.5°	3078.9	3085.8	3083.0	3081.2	3086.3	3078.3	3061.8	3056.7	3048.6	3029.8	2997.7
5°	2963.4	2984.0	2982.8	2998.4	3024.1	3030.9	3023.4	3024.7	3009.7	2986.2	2933.1
7.5°	2763.7	2772.3	2776.9	2810.6	2857.6	2895.3	2927.3	2937.6	2930.8	2910.8	2842.1
10°	2557.8	2564.8	2575.6	2615.1	2674.6	2726.5	2787.3	2822.1	2836.9	2833.6	2756.9
12.5°	2381.1	2388.0	2402.2	2447.0	2517.8	2581.9	2670.0	2713.4	2749.0	2770.1	2687.6
15°	2222.6	2237.6	2251.3	2302.7	2382.2	2466.3	2565.9	2620.7	2675.7	2723.1	2626.6
17.5°	2099.2	2114.0	2122.1	2168.9	2253.6	2356.6	2473.3	2537.8	2606.5	2684.2	2565.9
20°	2027.7	2034.5	2031.1	2057.4	2133.5	2242.7	2381.1	2456.1	2539.0	2647.7	2505.3
22.5°	2007.6	2008.3	1995.7	1992.8	2041.9	2134.1	2282.8	2373.7	2475.5	2623.6	2453.2
25°	2056.2	2054.6	2020.2	1992.3	1997.3	2051.1	2187.8	2293.6	2422.3	2618.5	2413.1
27.5°	2164.3	2169.4	2118.7	2066.0	2013.9	2012.3	2115.8	2227.3	2378.8	2641.9	2396.0
30°	2315.9	2324.5	2270.1	2203.3	2105.4	2024.8	2087.8	2187.8	2351.9	2690.6	2393.2
32.5°	2481.7	2490.9	2449.8	2379.4	2251.3	2102.6	2107.2	2191.2	2350.9	2758.7	2412.6
35°	2658.5	2668.9	2647.7	2588.1	2445.7	2246.1	2181.5	2246.8	2388.0	2862.7	2464.6
37.5°	2855.9	2871.9	2877.6	2820.9	2668.9	2435.5	2303.3	2351.9	2472.0	3007.4	2560.2
40°	3140.1	3162.5	3160.7	3079.5	2924.5	2691.1	2491.4	2504.0	2603.1	3200.8	2712.9
42.5°	3684.7	3689.2	3546.8	3370.1	3206.0	2959.9	2713.4	2703.2	2783.8	3445.5	2937.6
45°	4377.4	4358.4	4041.6	3700.1	3499.8	3268.8	3002.2	2952.0	3013.2	3744.1	3219.0
47.5°	4952.1	4908.7	4508.4	4037.1	3811.1	3604.5	3341.4	3253.4	3287.2	4082.7	3582.8
50°	5151.8	5119.3	4787.4	4317.3	4105.7	4014.2	3759.0	3634.4	3643.4	4486.6	4009.0
52.5°	5108.9	5104.3	4882.9	4502.0	4381.4	4444.3	4350.4	4181.7	4092.5	4935.0	4468.9
55°	5007.6	5017.4	4937.3	4717.1	4696.5	4859.6	5123.2	4998.4	4721.1	5387.4	4944.1
57.5°	4655.8	4681.1	4857.1	4987.6	5203.8	5446.3	5745.5	5710.0	5397.7	5876.4	5509.2
60°	3751.1	3809.4	4281.9	4935.0	5726.1	6484.4	6618.4	6536.0	6095.4	6483.3	6255.6
62.5°	2628.3	2688.8	3250.5	4272.7	5640.3	7657.1	8178.7	7823.5	7097.6	7377.3	7221.7
65°	1407.0	1436.2	1865.2	2964.5	4761.6	7898.9	10459.1	9918.5	8684.3	8479.6	8048.3
67.5°	776.1	792.1	956.3	1496.8	3049.7	6955.8	11912.0	12320.3	10667.4	9213.3	7897.8
69°	701.8	716.7	824.3	1133.7	2040.8	5751.2	11770.1	12953.5	11536.8	9140.8	7341.8
70°	686.3	700.0	796.7	1045.0	1651.9	4740.5	11294.7	12791.7	11743.8	8880.5	6856.9
72.5°	617.8	632.5	726.4	938.5	1411.6	2363.4	8946.8	10815.5	10662.2	7699.9	5200.9
75°	576.0	589.6	748.6	919.1	1351.6	1495.7	5898.2	7971.0	7837.7	5386.2	2804.4
77.5°	246.6	245.3	347.1	777.9	1371.6	1448.2	3169.3	4979.7	4543.2	2302.1	805.3
80°	164.7	161.9	164.7	228.8	1257.7	1456.2	1660.4	2527.6	1909.3	586.9	397.0
82.5°	141.8	139.5	144.6	139.5	442.1	1662.1	1411.6	1344.1	907.6	333.5	196.8
85°	95.5	91.4	124.7	125.3	208.8	1476.9	1590.1	1135.4	734.5	197.8	97.2
87.5°	45.8	44.6	72.7	88.7	122.3	600.0	1783.9	1163.3	740.7	101.1	46.4
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°	3017.1	3017.1	3017.1	3017.1	3017.1	3017.1	3017.1	3017.1	3017.1	3017.1	3017.1
2.5°	2988.0	2964.5	2941.7	2914.2	2885.6	2853.6	2837.6	2821.5	2817.5	2813.0	2797.0
5°	2905.7	2872.5	2815.3	2752.3	2686.0	2621.3	2572.1	2541.2	2517.8	2505.8	2484.6
7.5°	2799.3	2750.6	2650.4	2541.8	2430.4	2328.4	2240.5	2184.9	2132.3	2107.8	2079.7
10°	2698.0	2625.3	2469.8	2309.6	2149.5	1995.7	1850.9	1748.6	1657.6	1606.7	1570.6
12.5°	2611.1	2511.5	2295.9	2079.1	1859.5	1640.5	1423.6	1253.1	1110.8	1035.8	997.5
15°	2526.5	2406.3	2130.6	1855.4	1573.6	1275.6	990.7	797.3	679.5	632.5	616.5
17.5°	2449.8	2295.9	1964.8	1630.2	1278.4	918.0	665.7	559.4	514.2	498.7	493.6
20°	2366.9	2184.4	1792.6	1394.4	970.7	641.7	519.8	473.0	454.7	450.1	447.9
22.5°	2286.7	2074.5	1627.9	1142.3	697.3	495.3	446.6	427.2	424.4	428.4	428.4
25°	2218.6	1976.2	1450.0	878.5	511.9	417.0	399.8	395.3	406.2	420.9	423.8
27.5°	2167.8	1895.6	1260.6	648.7	407.8	362.6	362.0	369.6	396.4	425.0	430.6
30°	2132.8	1818.9	1058.2	467.8	342.1	319.2	328.3	344.3	383.8	424.4	435.3
32.5°	2115.1	1762.2	847.1	362.0	292.8	280.4	295.7	315.1	354.0	391.8	406.2
35°	2129.0	1720.6	648.0	302.0	258.5	248.8	264.8	283.8	306.6	322.6	333.5
37.5°	2180.4	1703.9	489.0	270.5	235.0	226.0	238.5	249.4	258.5	263.2	268.2
40°	2291.3	1721.6	391.8	254.5	221.9	210.6	215.7	219.6	225.4	230.0	232.2
42.5°	2454.9	1774.8	351.1	248.2	215.1	198.4	197.4	199.1	206.5	215.1	216.9
45°	2683.6	1868.7	348.4	252.2	211.6	188.7	183.7	185.9	197.4	210.6	212.8
47.5°	2975.9	2011.7	371.2	264.2	214.4	183.7	175.0	177.9	192.1	209.9	212.8
50°	3330.0	2211.3	409.5	282.0	227.1	184.7	172.1	173.9	188.7	208.1	211.0
52.5°	3748.2	2494.4	451.3	299.1	240.2	192.1	174.5	170.5	184.2	201.3	204.8
55°	4213.2	2857.6	494.2	314.5	247.2	201.3	179.0	165.8	175.6	189.9	192.7
57.5°	4784.1	3365.5	568.5	329.5	251.6	207.6	183.7	161.2	164.7	175.0	177.3
60°	5556.7	4083.9	699.5	354.0	261.9	209.9	183.1	157.4	153.9	159.5	160.7
62.5°	6482.8	4864.1	808.7	385.0	279.2	211.6	179.7	154.4	144.6	144.6	145.9
65°	7032.4	5072.9	748.2	410.6	293.4	209.9	175.6	151.5	137.8	131.5	132.1
67.5°	6566.3	4461.4	641.2	415.8	292.8	201.8	169.3	146.5	131.1	121.2	120.7
69°	5982.3	3849.3	593.2	402.1	279.2	191.6	161.2	140.8	125.9	115.5	115.0
70°	5511.6	3475.9	561.7	387.2	264.2	184.2	155.0	135.6	121.8	112.1	111.0
72.5°	4007.2	2277.7	479.9	332.9	217.8	154.4	133.8	118.9	108.7	102.9	101.8
75°	2002.5	1086.2	389.5	270.0	167.1	123.5	109.9	99.5	94.4	93.2	92.6
77.5°	657.7	497.7	278.6	201.3	124.1	96.7	88.7	81.2	80.0	83.5	82.4
80°	361.5	289.4	176.7	133.3	84.6	71.0	69.8	65.8	67.6	73.2	72.0
82.5°	184.2	150.5	109.2	80.0	57.2	50.9	55.4	53.2	55.4	60.6	60.0
85°	91.0	82.4	69.2	48.6	37.8	32.6	39.4	41.2	42.3	46.4	46.4
87.5°	52.6	48.6	36.7	22.8	18.9	17.2	22.8	22.3	26.3	28.6	28.0
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)