

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: P527867

Luminaire Tested: **GALN-SA2D-830-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527867
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2D-830-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7216 lumens
Efficiency: N/A
Efficacy: 57.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

Input Watts (W): 125
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: 24 FT



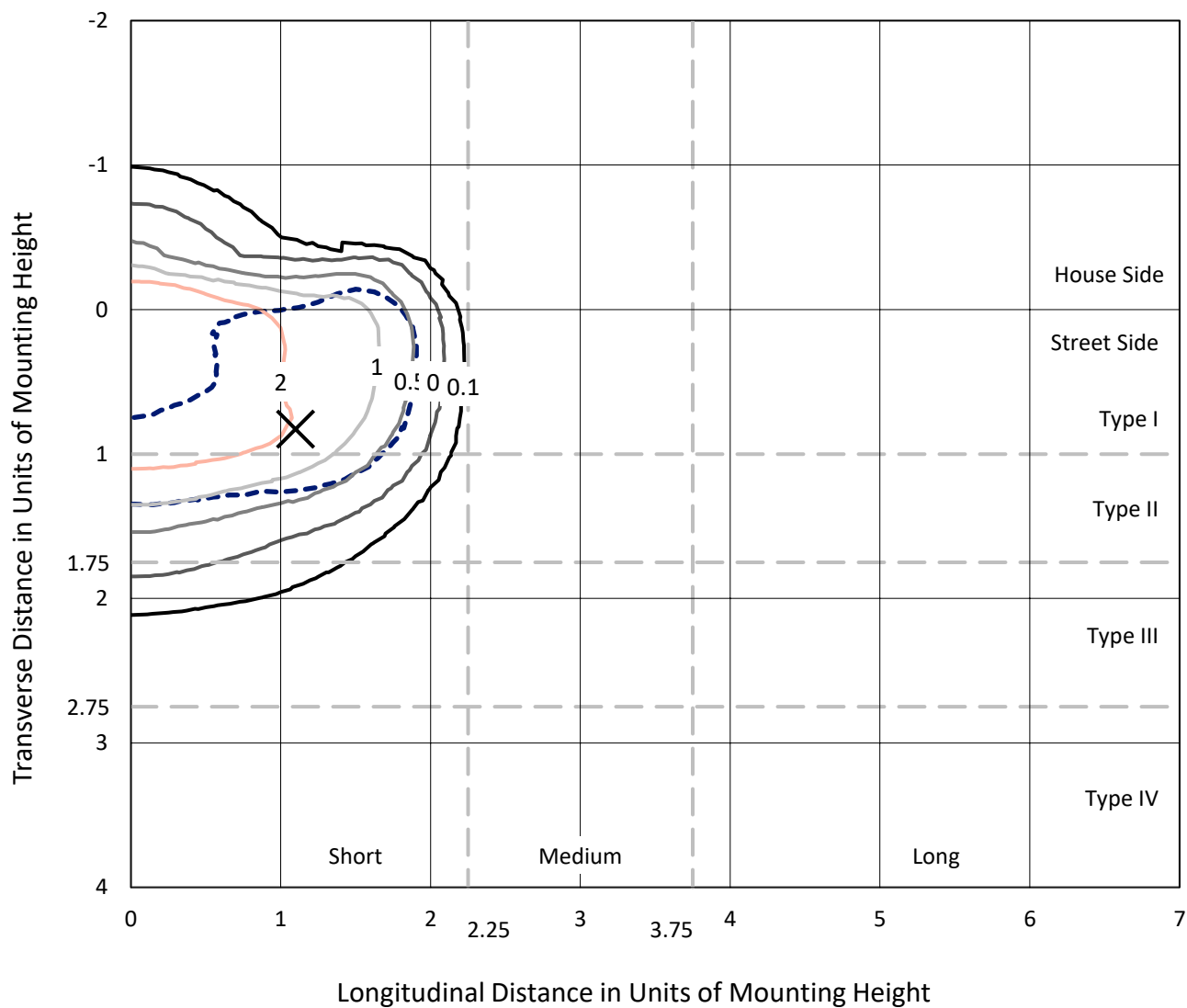
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

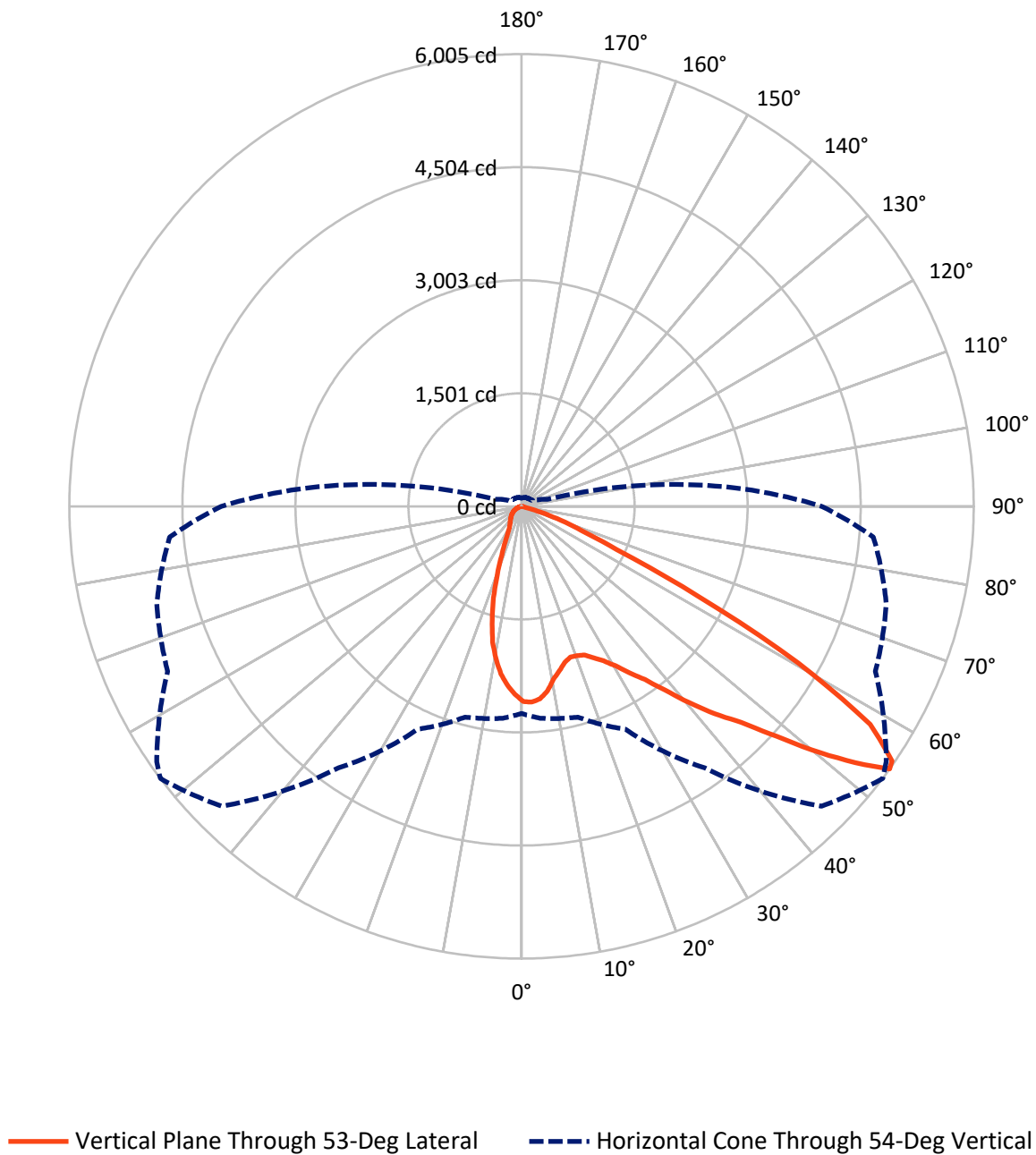


Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1193.9	0.0	1193.9
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	6022.1	0.0	6022.1
	% Fixture	83.5	0.0	83.5
Total	Lumens	7216.0	0.0	7216.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.4	3.1
10°-20°	509.8	7.1
20°-30°	724.6	10.0
30°-40°	1118.2	15.5
40°-50°	1753.3	24.3
50°-60°	2036.7	28.2
60°-70°	769.6	10.7
70°-80°	73.2	1.0
80°-90°	8.2	0.1
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°	7216.0	100.0
0°-180°	7216.0	100.0

Coefficient of Utilization



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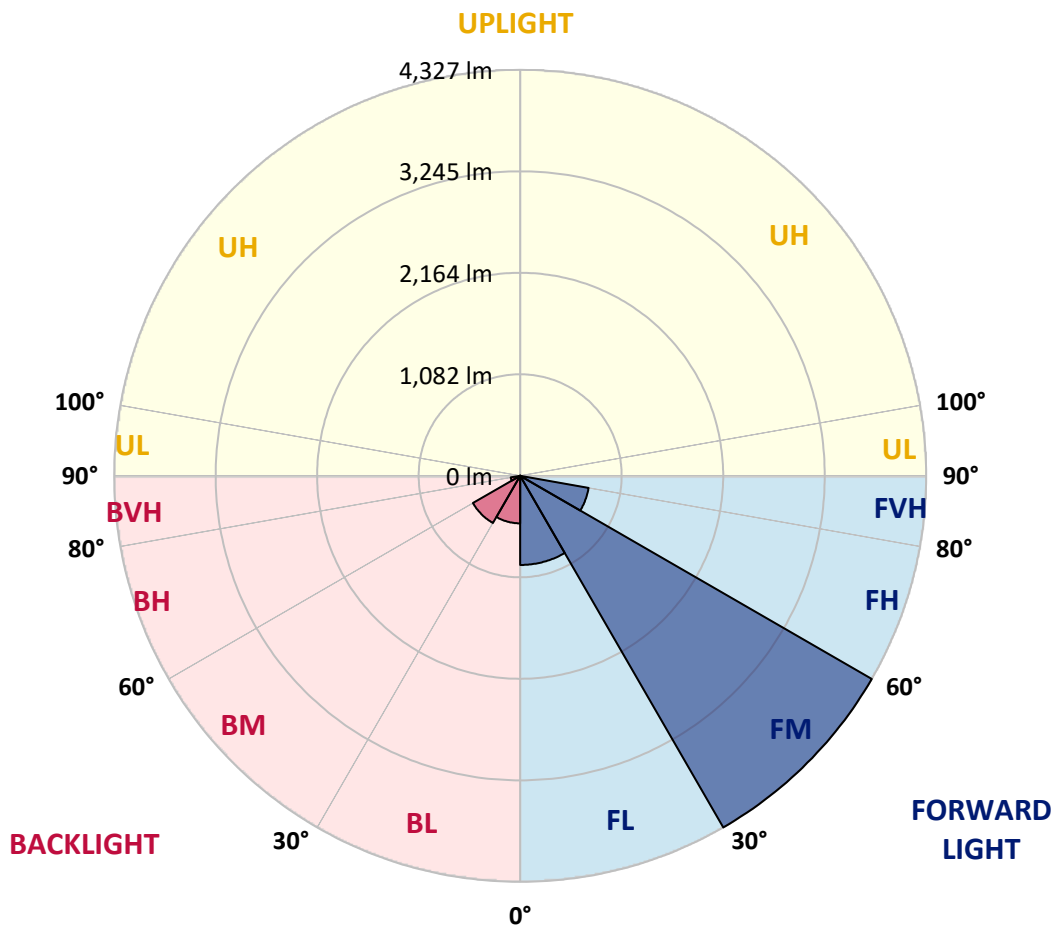
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	950.2	13.2			
FM	(30°-60°)	4327.2	60.0			
FH	(60°-80°)	740.5	10.3			G1/1800
FVH	(80°-90°)	4.3	0.1			G0/10
BL	(0°-30°)	506.6	7.0	B2/1000		
BM	(30°-60°)	581.0	8.1	B1/1000		
BH	(60°-80°)	102.3	1.4	B0/110		G0/110
BVH	(80°-90°)	4.0	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-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	2591.9	2591.9	2591.9	2591.9	2591.9	2591.9	2591.9	2591.9	2591.9	2591.9	2591.9
2.5°	2578.4	2555.6	2578.4	2581.1	2597.2	2612.0	2602.6	2624.1	2612.0	2598.6	2594.6
5°	2370.1	2401.0	2402.3	2450.7	2440.0	2528.7	2567.7	2556.9	2622.8	2618.8	2609.3
7.5°	2183.2	2171.1	2187.2	2243.7	2314.9	2417.1	2473.6	2472.2	2566.3	2633.5	2626.8
10°	2009.8	2008.4	2042.0	2086.4	2146.9	2254.4	2332.4	2371.4	2517.9	2620.1	2634.9
12.5°	1892.8	1887.4	1923.7	1960.0	2055.5	2138.8	2238.3	2257.1	2425.2	2573.0	2597.2
15°	1816.2	1828.3	1831.0	1900.9	1961.4	2071.6	2149.6	2188.6	2382.2	2535.4	2628.2
17.5°	1802.7	1818.9	1820.2	1878.0	1942.6	2035.3	2103.9	2156.3	2345.9	2554.2	2629.5
20°	1829.6	1820.2	1828.3	1864.6	1927.8	2016.5	2116.0	2133.4	2333.8	2563.6	2644.3
22.5°	1906.3	1903.6	1883.4	1913.0	1957.3	2050.1	2144.2	2171.1	2368.7	2612.0	2656.4
25°	1991.0	2005.7	1986.9	1982.9	2013.8	2105.2	2230.2	2265.2	2485.7	2699.4	2694.0
27.5°	2149.6	2134.8	2134.8	2116.0	2107.9	2152.3	2323.0	2380.8	2616.1	2812.3	2737.1
30°	2301.5	2317.6	2305.5	2312.2	2258.5	2254.4	2454.7	2526.0	2847.3	2984.4	2828.5
32.5°	2542.1	2520.6	2540.8	2523.3	2452.1	2379.5	2633.5	2707.5	3126.9	3182.0	2965.6
35°	2742.4	2733.0	2819.1	2816.4	2700.8	2629.5	2823.1	2933.3	3321.8	3418.6	3126.9
37.5°	3027.4	3010.0	3108.1	3155.1	3051.6	2945.4	3094.6	3222.4	3503.3	3608.2	3292.3
40°	3320.5	3364.9	3496.6	3574.6	3464.3	3323.2	3426.7	3465.7	3624.3	3731.9	3405.2
42.5°	3691.5	3756.1	3890.5	3957.7	3948.3	3795.0	3764.1	3762.8	3711.7	3696.9	3488.5
45°	4047.8	4023.6	4230.6	4377.1	4495.4	4451.1	4089.4	4049.1	3850.2	3749.3	3510.0
47.5°	4203.7	4195.6	4336.8	4597.6	5000.9	5056.0	4562.7	4406.7	4084.1	3969.8	3627.0
50°	4002.1	4043.7	4183.6	4472.6	5091.0	5511.7	5143.4	4933.7	4357.0	4238.7	3903.9
52.5°	3343.3	3371.6	3504.7	3871.7	4784.5	5780.6	5700.0	5579.0	4858.4	4662.1	4386.5
54°	2749.2	2824.4	2897.0	3265.4	4238.7	5631.4	6005.1	5912.4	5185.1	5014.3	4690.4
55°	2394.2	2438.6	2491.0	2858.0	3860.9	5378.7	5970.2	5978.2	5404.2	5124.6	4894.7
57.5°	1749.0	1779.9	1726.1	1888.8	2651.0	4367.7	5460.7	5678.4	5700.0	5289.9	5019.7
60°	1336.3	1349.7	1289.2	1314.8	1648.1	2997.9	4223.9	4486.0	5142.1	4623.1	4252.1
62.5°	1036.5	1039.2	1037.8	1082.2	1136.0	1763.8	2641.6	2874.2	3545.0	3282.9	2887.6
65°	763.6	751.5	773.0	907.4	969.3	1109.1	1391.4	1560.8	1926.4	1626.6	1162.8
67.5°	494.7	498.7	520.3	674.9	830.8	851.0	856.3	842.9	844.2	465.1	291.7
70°	297.1	303.8	297.1	381.8	594.2	610.3	557.9	544.5	424.8	110.2	108.9
72.5°	176.1	166.7	149.2	164.0	247.4	295.8	266.2	264.8	166.7	64.5	64.5
75°	73.9	67.2	55.1	49.7	65.9	63.2	63.2	56.5	44.4	43.0	40.3
77.5°	14.8	14.8	10.8	12.1	16.1	18.8	22.9	22.9	26.9	26.9	25.5
80°	0.0	1.3	4.0	8.1	12.1	17.5	20.2	20.2	22.9	22.9	18.8
82.5°	0.0	1.3	4.0	8.1	10.8	16.1	20.2	20.2	22.9	24.2	20.2
85°	0.0	1.3	4.0	6.7	10.8	13.4	13.4	12.1	9.4	8.1	5.4
87.5°	0.0	0.0	1.3	2.7	1.3	2.7	2.7	2.7	2.7	2.7	2.7
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°	2591.9	2591.9	2591.9	2591.9	2591.9	2591.9	2591.9	2591.9	2591.9	2591.9	2591.9
2.5°	2604.0	2602.6	2570.4	2517.9	2505.8	2461.5	2456.1	2429.2	2444.0	2394.2	2388.9
5°	2582.5	2566.3	2527.3	2493.7	2395.6	2325.7	2270.6	2203.4	2164.4	2171.1	2145.5
7.5°	2613.4	2571.7	2503.1	2386.2	2266.5	2144.2	2078.3	1941.2	1891.5	1817.5	1806.8
10°	2581.1	2550.2	2444.0	2250.4	2085.1	1908.9	1754.3	1602.4	1486.8	1437.1	1426.3
12.5°	2578.4	2524.6	2347.2	2132.1	1892.8	1640.1	1415.6	1226.0	1111.8	1047.2	1032.4
15°	2536.7	2472.2	2238.3	1949.3	1618.6	1304.0	1059.3	876.5	789.1	751.5	762.2
17.5°	2540.8	2444.0	2129.4	1755.7	1348.4	957.2	723.2	629.1	606.3	615.7	615.7
20°	2536.7	2380.8	1997.7	1532.5	1032.4	664.1	531.0	497.4	512.2	541.8	535.0
22.5°	2515.2	2351.2	1876.7	1297.3	759.5	492.0	426.2	427.5	450.4	486.6	494.7
25°	2531.4	2285.4	1723.4	1059.3	553.9	392.5	369.7	379.1	403.3	430.2	435.6
27.5°	2519.3	2238.3	1563.5	822.7	404.6	337.4	336.1	346.8	357.6	377.8	377.8
30°	2532.7	2195.3	1406.2	611.7	333.4	309.2	303.8	311.9	322.6	326.7	325.3
32.5°	2582.5	2163.0	1224.7	457.1	294.4	282.3	282.3	282.3	281.0	286.3	287.7
35°	2691.3	2168.4	1064.7	353.6	268.9	259.5	255.4	250.0	247.4	250.0	251.4
37.5°	2809.6	2165.7	899.4	301.1	250.0	242.0	232.6	224.5	223.2	225.8	221.8
40°	2862.1	2191.3	746.1	270.2	232.6	223.2	208.4	201.6	203.0	205.7	203.0
42.5°	2933.3	2199.3	646.6	246.0	216.4	201.6	192.2	184.2	182.8	186.9	185.5
45°	2932.0	2153.6	541.8	232.6	201.6	185.5	173.4	166.7	166.7	169.4	170.7
47.5°	3018.0	2146.9	465.1	220.5	190.9	174.8	160.0	154.6	153.3	153.3	150.6
50°	3218.3	2241.0	406.0	207.0	177.5	162.7	150.6	143.8	138.5	135.8	134.4
52.5°	3609.5	2534.1	360.3	190.9	162.7	150.6	139.8	134.4	127.7	121.0	119.6
54°	3988.6	2836.5	357.6	177.5	150.6	142.5	133.1	130.4	122.3	112.9	110.2
55°	4159.4	3012.6	367.0	166.7	142.5	137.1	129.1	126.4	118.3	107.5	106.2
57.5°	4300.5	3081.2	361.6	138.5	129.1	127.7	121.0	117.0	107.5	92.8	90.1
60°	3461.6	2329.7	259.5	122.3	118.3	115.6	110.2	107.5	95.4	79.3	78.0
62.5°	2187.2	1340.3	165.4	107.5	103.5	99.5	92.8	90.1	79.3	63.2	59.2
65°	931.6	555.2	111.6	95.4	88.7	82.0	76.6	72.6	63.2	47.1	45.7
67.5°	242.0	197.6	92.8	83.3	73.9	64.5	60.5	53.8	43.0	32.3	30.9
70°	108.9	99.5	78.0	69.9	59.2	49.7	44.4	37.6	28.2	21.5	20.2
72.5°	64.5	63.2	59.2	52.4	44.4	37.6	32.3	25.5	18.8	12.1	12.1
75°	40.3	39.0	40.3	36.3	30.9	28.2	24.2	17.5	10.8	5.4	5.4
77.5°	24.2	24.2	24.2	22.9	21.5	21.5	17.5	10.8	5.4	1.3	1.3
80°	18.8	18.8	20.2	18.8	18.8	18.8	14.8	8.1	2.7	0.0	0.0
82.5°	18.8	20.2	22.9	21.5	18.8	16.1	13.4	8.1	2.7	0.0	0.0
85°	5.4	4.0	6.7	9.4	13.4	12.1	9.4	6.7	2.7	0.0	0.0
87.5°	2.7	2.7	2.7	2.7	1.3	1.3	1.3	1.3	1.3	0.0	0.0
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)