

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: STREETWORKS

Report Number: P323136

Luminaire Tested: **GAN-SA2D-727-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323136
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2D-727-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1200mA 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: 10997 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

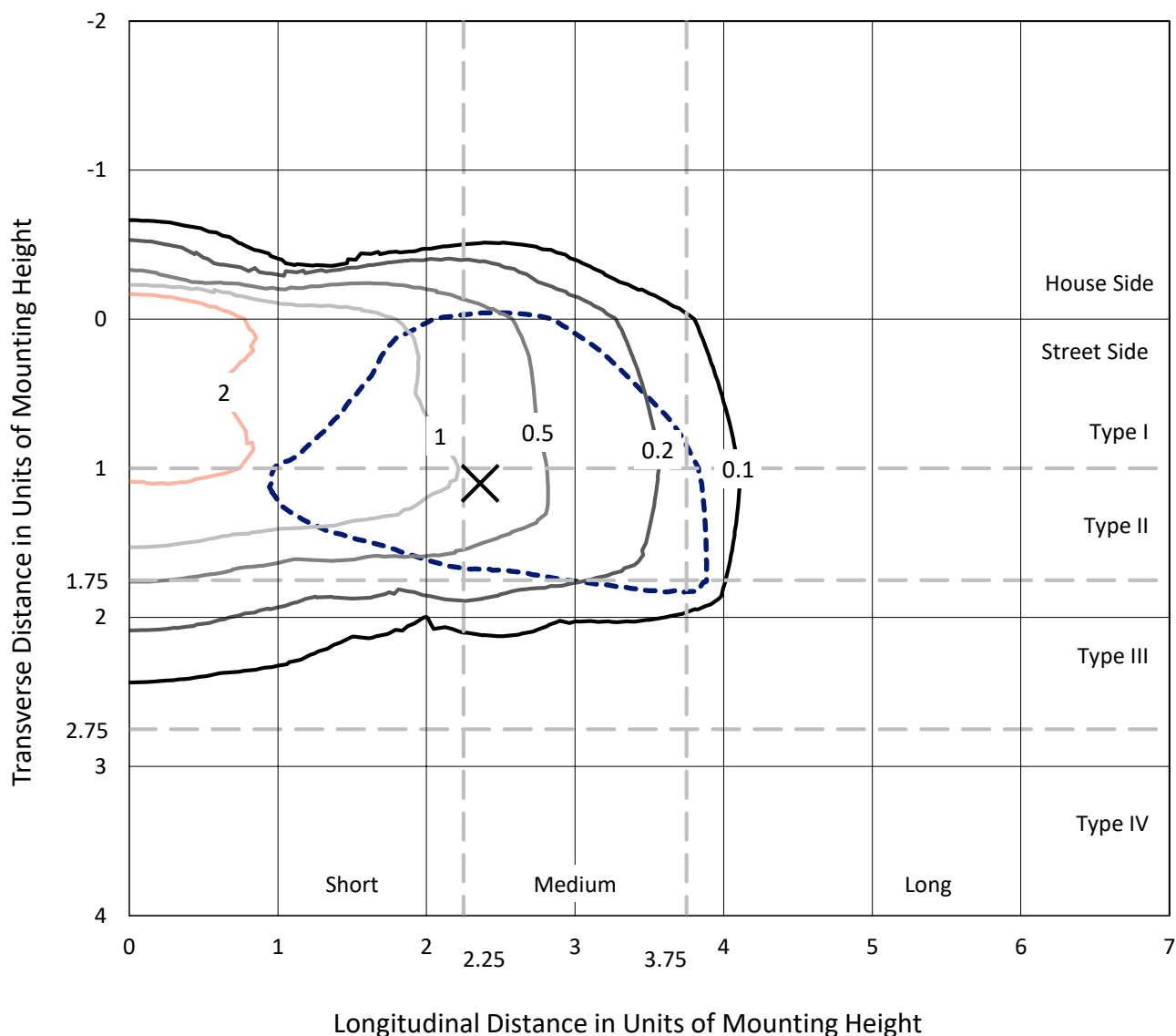
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

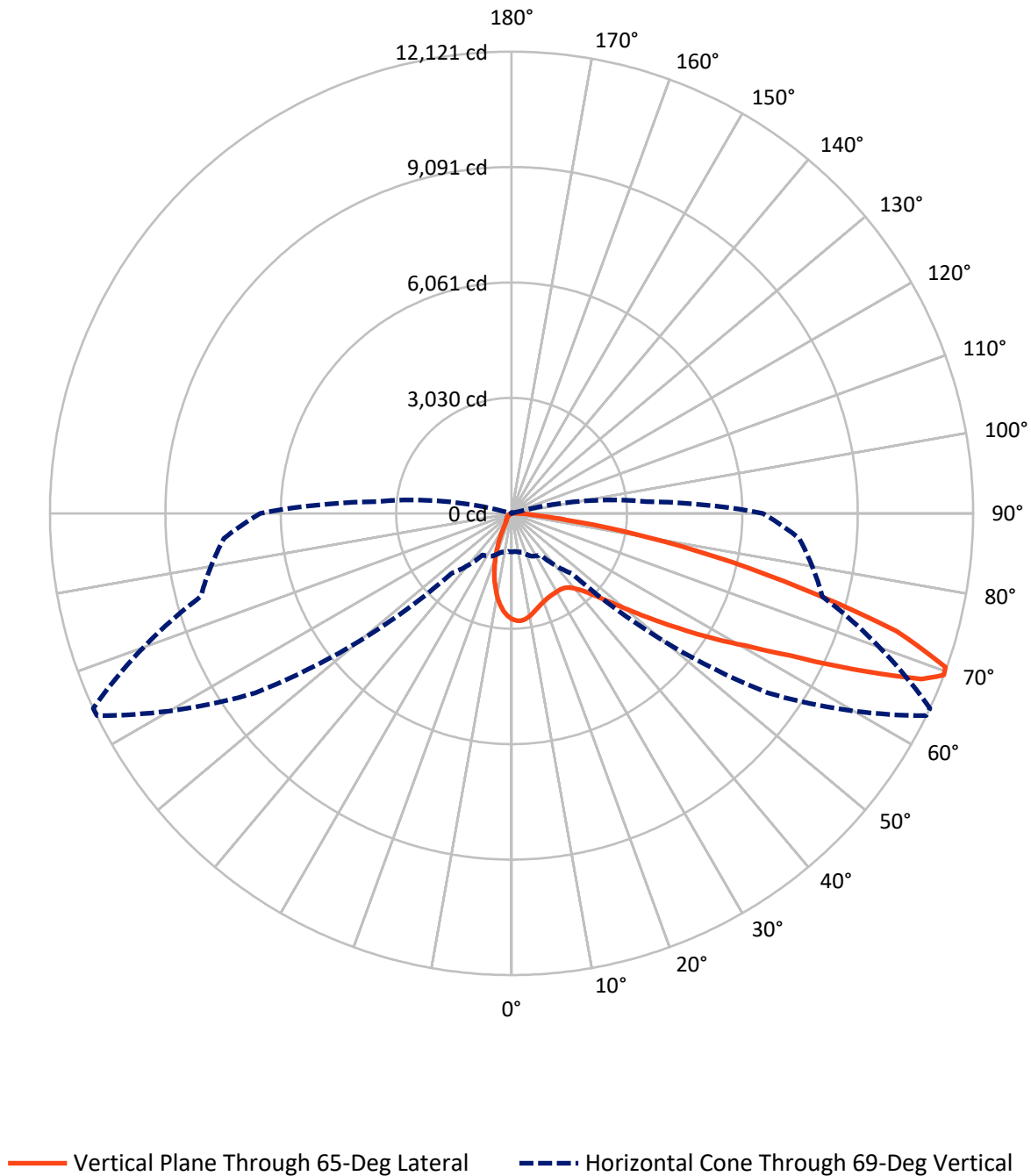
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1296.3	0.0	1296.3
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	9700.7	0.0	9700.7
	% Fixture	88.2	0.0	88.2
Total	Lumens	10997.0	0.0	10997.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.4	2.1
10°-20°	508.7	4.6
20°-30°	704.6	6.4
30°-40°	982.4	8.9
40°-50°	1526.9	13.9
50°-60°	2451.3	22.3
60°-70°	2772.8	25.2
70°-80°	1628.5	14.8
80°-90°	189.4	1.7
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°	10997.0	100.0
0°-180°	10997.0	100.0

Coefficient of Utilization



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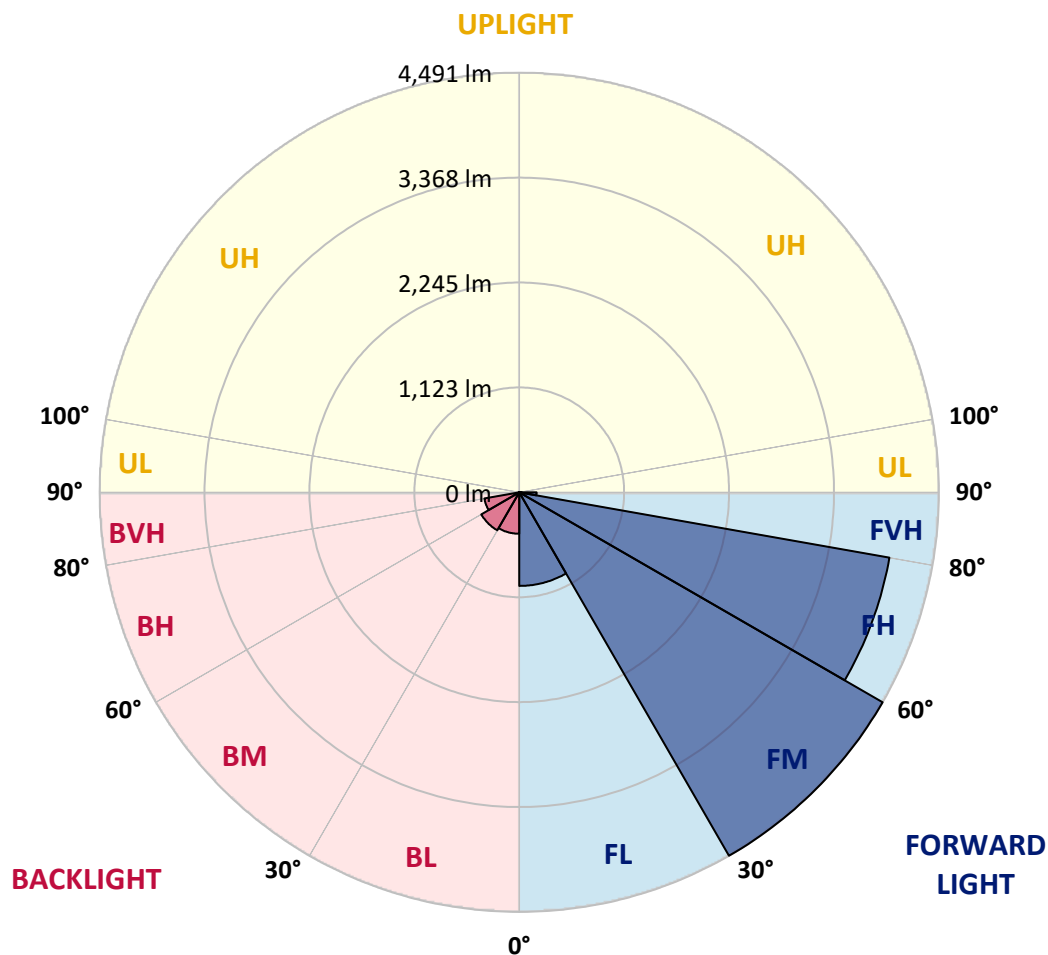
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1002.1	9.1			
FM	(30°-60°)	4490.9	40.8			
FH	(60°-80°)	4022.6	36.6			G2/5000
FVH	(80°-90°)	185.2	1.7			G2/225
BL	(0°-30°)	443.5	4.0	B1/500		
BM	(30°-60°)	469.7	4.3	B1/1000		
BH	(60°-80°)	378.7	3.4	B1/500		G1/500
BVH	(80°-90°)	4.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2779.0	2779.0	2779.0	2779.0	2779.0	2779.0	2779.0	2779.0	2779.0	2779.0	2779.0
2.5°	2803.6	2796.6	2802.2	2814.3	2820.4	2820.4	2825.0	2819.4	2821.3	2807.8	2788.3
5°	2628.2	2617.5	2632.8	2666.8	2708.7	2744.5	2797.6	2825.5	2828.3	2828.8	2806.0
7.5°	2439.3	2429.5	2452.3	2492.3	2546.3	2612.8	2705.4	2786.4	2791.1	2834.8	2818.0
10°	2285.7	2278.7	2305.3	2348.1	2411.3	2485.8	2599.3	2712.0	2725.4	2822.2	2816.2
12.5°	2163.8	2158.2	2183.3	2232.7	2297.3	2379.7	2498.4	2629.1	2647.3	2793.9	2806.9
15°	2074.9	2074.0	2094.9	2142.4	2214.0	2290.8	2412.3	2552.3	2573.3	2763.1	2805.5
17.5°	2028.4	2029.8	2045.1	2085.6	2147.0	2223.4	2339.7	2487.7	2510.5	2735.7	2812.5
20°	2023.7	2025.1	2033.5	2056.3	2106.1	2173.6	2280.6	2433.2	2457.0	2715.2	2823.6
22.5°	2064.7	2063.7	2066.1	2063.7	2091.7	2142.9	2241.5	2391.3	2418.8	2701.7	2832.5
25°	2143.3	2141.9	2141.0	2123.8	2105.2	2132.6	2225.2	2367.6	2393.7	2691.9	2837.6
27.5°	2252.7	2251.7	2250.3	2222.0	2166.1	2148.9	2227.1	2358.8	2380.6	2684.0	2836.7
30°	2396.5	2403.0	2401.1	2361.6	2274.5	2198.7	2246.6	2354.1	2373.2	2668.7	2826.9
32.5°	2565.4	2578.4	2588.6	2546.3	2437.4	2297.3	2291.8	2359.2	2373.2	2657.0	2809.2
35°	2740.8	2757.6	2795.2	2780.4	2637.0	2445.8	2369.5	2389.9	2401.6	2663.6	2800.8
37.5°	2913.4	2933.5	3015.3	3058.6	2898.6	2642.2	2490.5	2465.8	2471.8	2703.1	2810.1
40°	3114.0	3144.2	3268.5	3338.3	3210.8	2905.1	2671.5	2596.1	2598.4	2790.1	2853.4
42.5°	3377.4	3408.6	3543.0	3652.4	3562.6	3237.3	2917.2	2795.2	2792.9	2953.0	2955.3
45°	3698.5	3731.0	3870.2	3991.6	3951.1	3631.0	3231.7	3086.1	3083.3	3209.9	3148.4
47.5°	4062.3	4094.5	4218.7	4343.9	4387.6	4090.7	3632.4	3483.0	3476.5	3566.8	3446.7
50°	4374.6	4395.5	4510.0	4678.4	4875.7	4655.6	4130.7	3987.0	3980.0	4040.9	3884.6
52.5°	4488.1	4500.2	4616.6	4852.5	5344.8	5420.6	4785.5	4600.3	4595.2	4621.7	4467.7
55°	4258.3	4280.1	4423.0	4772.9	5598.9	6285.2	5611.9	5359.7	5321.1	5263.8	5077.2
57.5°	3631.9	3666.8	3820.4	4285.7	5480.2	6971.1	6826.4	6218.7	6161.9	5812.0	5572.8
60°	2721.3	2764.1	2891.6	3393.7	4846.9	7215.4	8153.5	7175.9	7047.9	6248.5	6028.4
62.5°	1867.4	1888.8	1975.3	2302.5	3569.6	6815.2	9263.8	8457.9	8224.3	6723.1	6521.2
65°	1426.2	1433.7	1469.1	1581.7	2125.6	5536.1	9705.4	10149.4	9866.9	7290.8	7032.6
67.5°	1149.4	1143.3	1192.2	1353.2	1423.4	3377.4	9190.3	11749.6	11617.5	8049.8	7547.2
69°	1013.5	1005.1	1054.9	1242.0	1336.9	2232.7	8215.9	12113.1	12121.4	8450.4	7582.6
70°	912.1	917.6	967.0	1175.9	1307.6	1752.4	7285.2	12020.4	12086.5	8600.3	7370.4
72.5°	609.1	624.0	723.1	976.3	1257.3	1326.2	4398.8	10315.0	10569.1	8262.9	6323.4
75°	343.4	354.6	472.3	736.2	1184.7	1262.9	2323.4	7599.3	7845.0	6909.7	4876.2
77.5°	168.5	174.5	267.1	475.1	990.7	1203.3	1317.8	5161.9	5442.5	4510.0	2758.0
80°	71.2	74.5	133.6	293.2	708.2	1148.4	978.6	3176.8	3211.7	1766.9	734.8
82.5°	27.5	28.4	56.3	182.9	450.0	895.3	818.5	1506.3	1470.0	332.7	167.5
85°	3.3	3.7	20.5	109.8	250.3	460.7	665.0	649.1	600.7	66.1	86.1
87.5°	0.0	0.0	1.4	33.5	74.5	215.9	345.7	269.4	242.9	21.4	44.7
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°	2779.0	2779.0	2779.0	2779.0	2779.0	2779.0	2779.0	2779.0	2779.0	2779.0	2779.0
2.5°	2772.0	2767.3	2742.2	2705.9	2671.5	2628.7	2587.7	2563.0	2543.5	2530.5	2545.8
5°	2779.4	2759.0	2682.6	2584.9	2489.1	2381.1	2280.6	2195.4	2161.9	2124.7	2141.5
7.5°	2777.1	2738.5	2601.2	2427.2	2251.3	2069.3	1897.2	1764.5	1695.7	1628.2	1645.4
10°	2765.5	2700.3	2492.3	2234.5	1971.1	1709.6	1465.3	1279.7	1175.9	1081.9	1095.4
12.5°	2739.9	2649.1	2363.9	2014.0	1661.7	1316.9	1030.7	792.9	665.4	609.1	616.1
15°	2724.5	2599.3	2228.0	1790.6	1331.3	917.2	630.1	468.6	410.4	391.8	394.1
17.5°	2717.1	2551.4	2087.5	1535.1	993.5	584.0	407.2	359.2	346.7	343.4	344.3
20°	2709.6	2503.0	1942.8	1282.5	684.5	392.7	334.6	320.6	316.0	311.8	312.7
22.5°	2697.1	2456.5	1787.3	1026.5	461.6	318.8	301.5	288.0	278.3	273.1	274.1
25°	2681.7	2407.6	1628.7	764.5	336.9	284.3	268.0	249.0	237.3	228.0	228.5
27.5°	2657.0	2347.6	1464.9	556.5	282.9	254.5	232.7	211.7	192.2	181.5	181.5
30°	2622.6	2279.7	1282.9	398.3	253.6	225.2	198.7	172.6	151.7	141.9	141.0
32.5°	2584.5	2208.9	1099.1	302.0	230.3	197.8	167.5	140.1	121.5	113.5	113.1
35°	2551.9	2132.6	915.8	253.1	207.1	171.2	138.2	114.9	100.0	93.5	93.1
37.5°	2530.9	2056.3	737.1	226.2	186.1	146.6	115.9	94.9	84.2	79.1	78.6
40°	2527.7	1999.5	573.8	205.7	166.6	124.7	96.8	80.5	70.7	65.1	64.7
42.5°	2570.0	1967.0	440.2	188.5	146.6	105.6	82.4	68.9	58.6	53.0	52.6
45°	2681.2	1977.2	338.8	173.1	126.6	89.3	69.8	57.2	47.9	43.7	42.8
47.5°	2884.1	2047.9	269.4	157.7	107.5	75.8	59.6	47.5	39.6	35.4	34.9
50°	3245.2	2214.0	225.2	141.0	89.8	64.7	49.3	38.6	32.1	28.4	27.9
52.5°	3724.5	2510.0	201.0	124.7	74.5	54.9	40.5	30.7	25.1	22.3	21.9
55°	4253.1	2868.3	185.2	107.0	61.0	45.6	32.1	24.2	19.5	17.2	16.3
57.5°	4769.2	3178.7	170.3	89.8	50.7	37.2	25.6	19.1	15.4	13.0	12.6
60°	5243.4	3463.9	153.1	72.1	41.4	29.3	20.0	14.9	12.1	9.8	9.8
62.5°	5751.0	3684.5	129.4	56.3	34.0	22.3	16.3	13.5	9.8	8.4	7.9
65°	6289.0	3848.3	101.4	43.7	26.5	16.8	13.5	14.0	7.9	6.0	5.6
67.5°	6686.4	3815.7	74.9	34.4	20.5	13.0	13.0	14.9	7.0	4.7	4.2
69°	6598.9	3550.9	62.8	29.8	17.7	11.2	12.1	14.9	6.5	4.2	3.7
70°	6345.3	3257.8	55.4	26.5	15.8	10.2	11.6	14.4	6.0	4.2	3.7
72.5°	5284.3	2453.7	43.3	20.0	12.6	8.4	9.8	12.6	6.0	4.2	3.3
75°	3974.9	1570.5	33.0	14.4	9.3	6.5	7.4	9.3	6.0	3.7	3.3
77.5°	2162.9	566.3	23.7	9.8	6.5	5.1	5.1	7.0	5.6	2.8	1.9
80°	556.1	142.4	14.9	6.5	5.1	3.7	3.3	4.7	3.3	0.5	0.0
82.5°	137.3	32.1	7.9	4.7	3.7	1.4	1.4	2.3	1.4	0.0	0.0
85°	75.4	15.8	5.1	3.3	1.9	0.0	0.0	0.5	0.0	0.0	0.0
87.5°	38.6	4.7	1.4	0.9	0.5	0.0	0.0	0.0	0.0	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)