

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: P480453

Luminaire Tested: **IFLD-S-SA2B-735-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480453
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-735-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

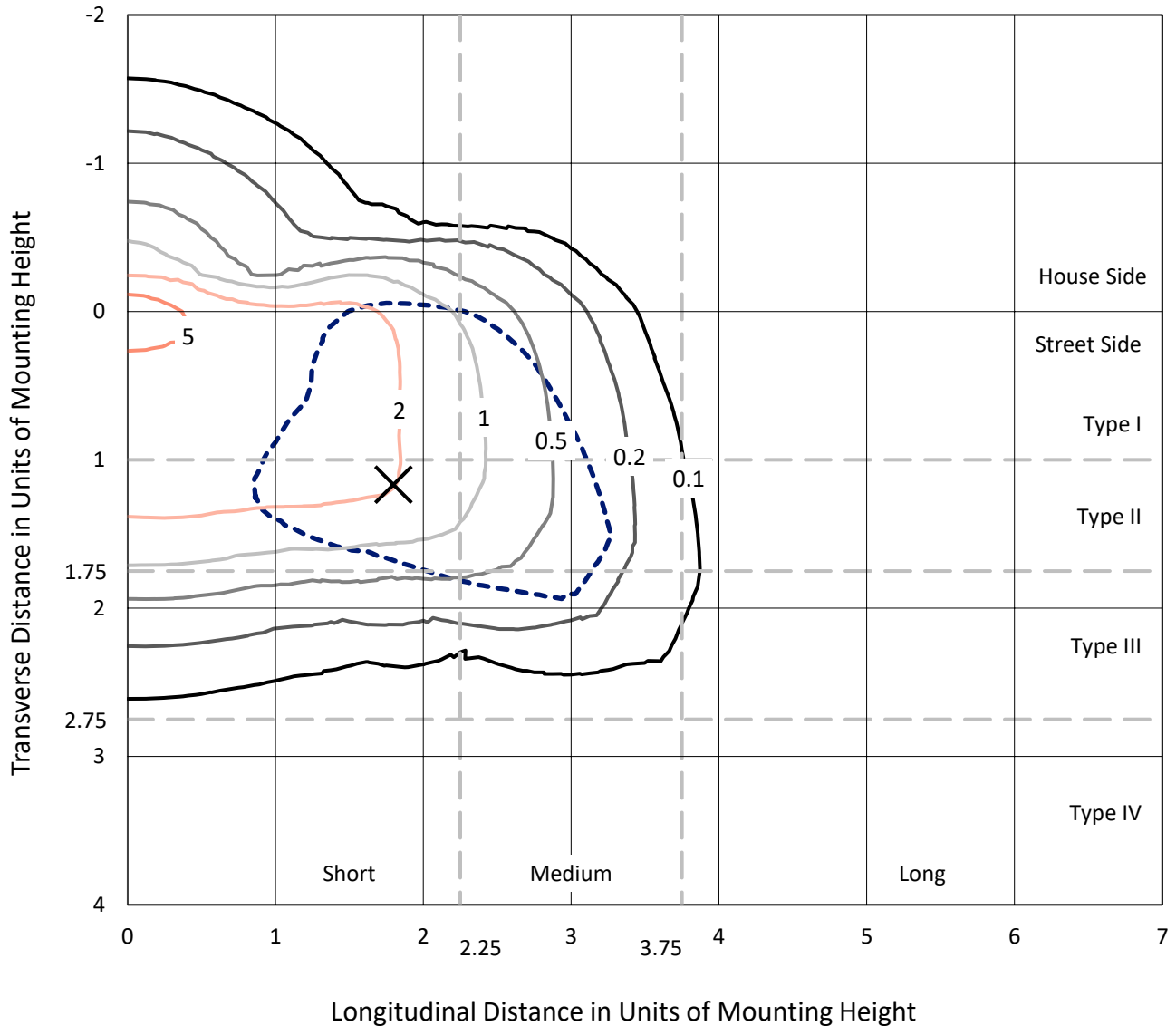
Lumens per Lamp: N/A
Luminaire Lumens: 11111.9 lumens
Efficiency: N/A
Efficacy: 134.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 82.4
Input Voltage (V): 120
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

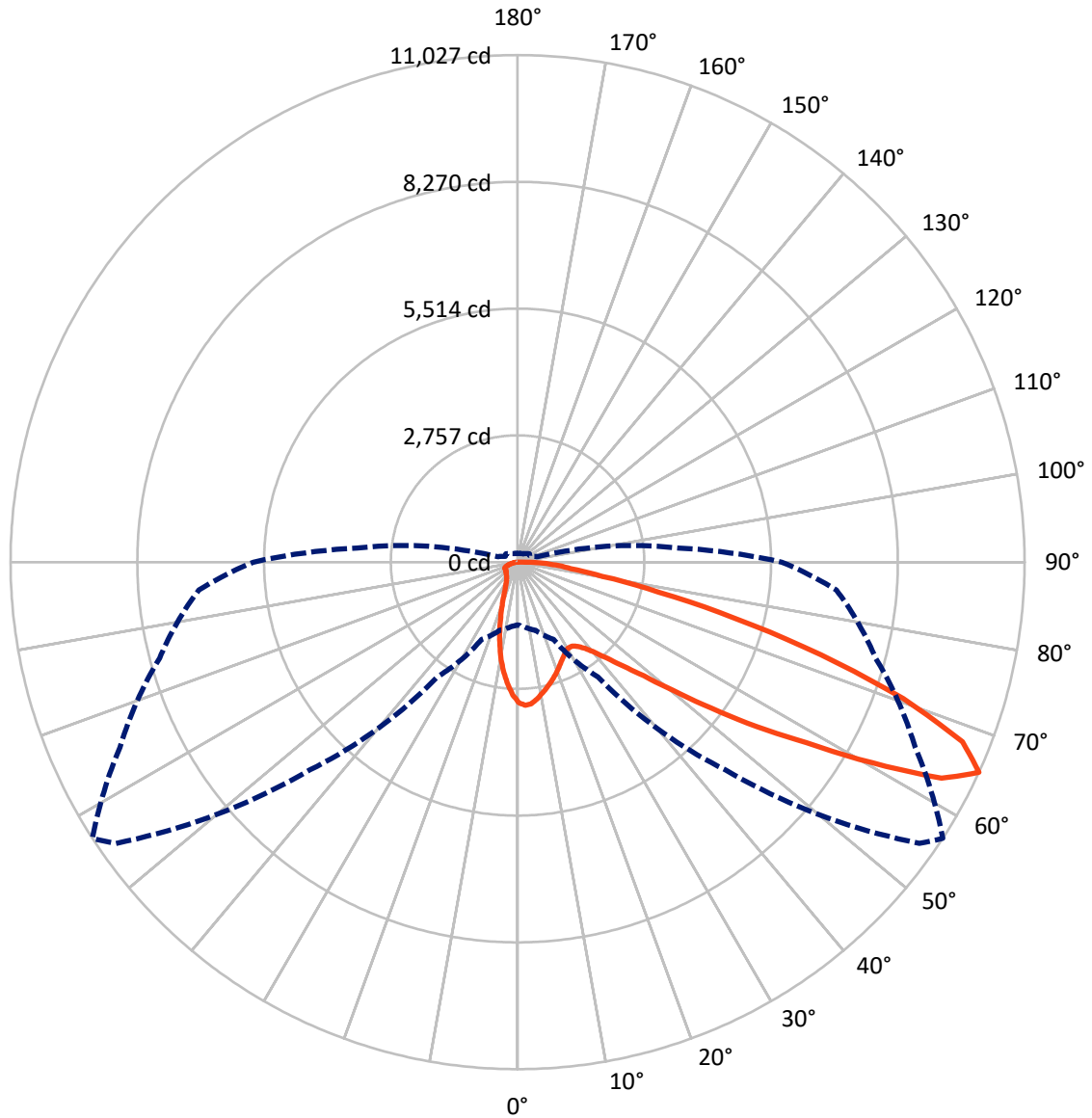
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1704.1	0.0	1704.1
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	9407.7	0.0	9407.7
	% Fixture	84.7	0.0	84.7
Total	Lumens	11111.9	0.0	11111.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.9	2.3
10°-20°	550.7	5.0
20°-30°	712.0	6.4
30°-40°	958.1	8.6
40°-50°	1527.8	13.7
50°-60°	2698.4	24.3
60°-70°	2968.6	26.7
70°-80°	1241.8	11.2
80°-90°	198.5	1.8
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°	11111.9	100.0
0°-180°	11111.9	100.0

Coefficient of Utilization



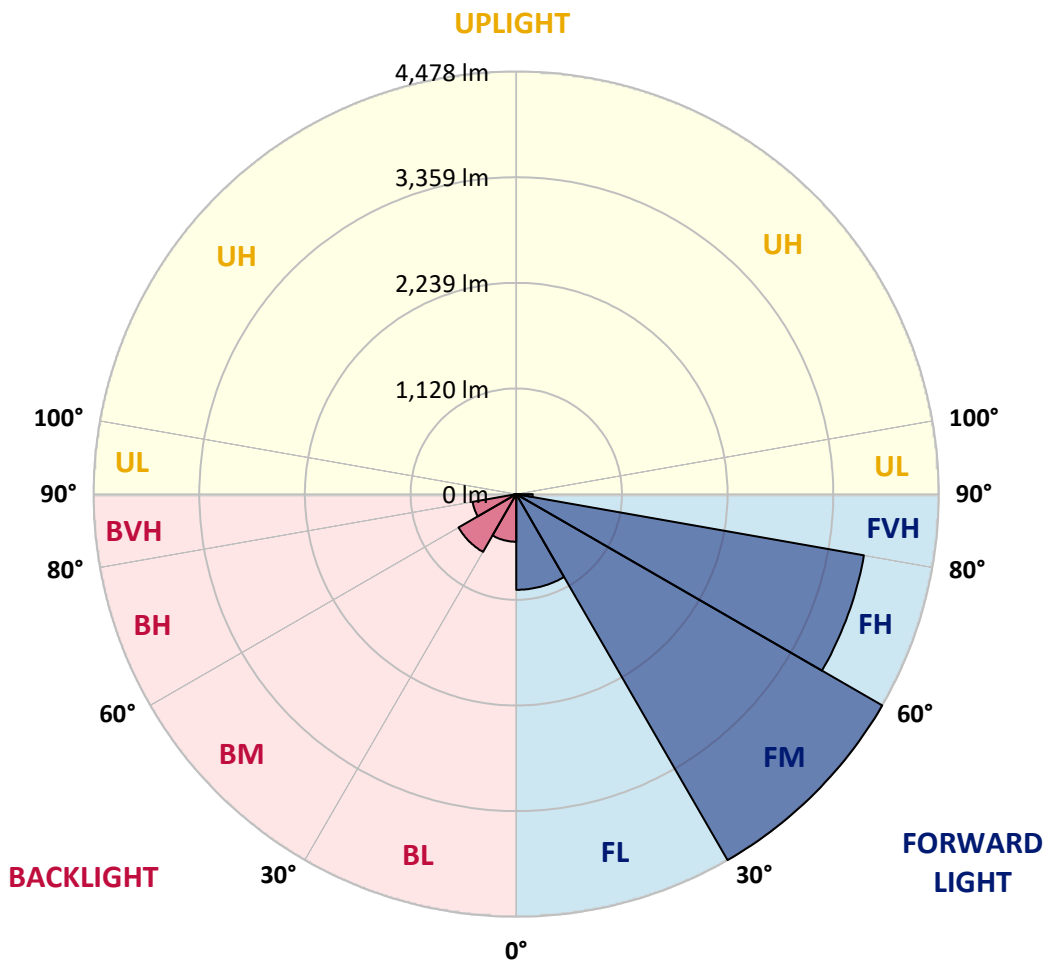
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1013.9	9.1			
FM (30°-60°)	4478.1	40.3			
FH (60°-80°)	3740.6	33.7			G2/5000
FVH (80°-90°)	175.2	1.6			G2/225
BL (0°-30°)	504.7	4.5	B2/1000		
BM (30°-60°)	706.3	6.4	B1/1000		
BH (60°-80°)	469.9	4.2	B1/500		G1/500
BVH (80°-90°)	23.3	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	3055.6	3055.6	3055.6	3055.6	3055.6	3055.6	3055.6	3055.6	3055.6	3055.6	3055.6
2.5°	3138.1	3143.1	3143.1	3153.1	3119.4	3135.6	3133.1	3118.1	3123.1	3096.9	3070.6
5°	3049.4	3045.6	3065.6	3068.1	3094.4	3101.9	3108.1	3098.1	3100.6	3043.1	3018.1
7.5°	2821.8	2820.6	2854.3	2883.1	2938.1	2989.3	3023.1	3013.1	3026.8	2990.6	2931.8
10°	2551.8	2580.5	2615.5	2644.3	2745.5	2810.6	2898.1	2906.8	2959.3	2950.6	2844.3
12.5°	2349.2	2361.7	2388.0	2470.5	2563.0	2670.5	2795.6	2806.8	2858.1	2883.1	2790.6
15°	2182.9	2194.2	2227.9	2289.2	2393.0	2520.5	2679.3	2708.0	2810.6	2819.3	2720.5
17.5°	2061.7	2070.4	2092.9	2154.2	2239.2	2403.0	2553.0	2604.3	2739.3	2781.8	2648.0
20°	2014.1	1995.4	2007.9	2046.7	2131.7	2257.9	2451.7	2496.7	2669.3	2753.0	2579.3
22.5°	1992.9	1976.6	1984.1	1981.6	2049.2	2139.2	2343.0	2390.5	2603.0	2719.3	2518.0
25°	2009.1	2009.1	2001.6	1995.4	2002.9	2061.7	2225.4	2299.2	2514.2	2690.5	2455.5
27.5°	2096.7	2062.9	2066.7	2040.4	2032.9	2032.9	2172.9	2216.7	2485.5	2674.3	2404.2
30°	2152.9	2169.2	2170.4	2131.7	2092.9	2022.9	2124.2	2166.7	2461.7	2694.3	2374.2
32.5°	2296.7	2289.2	2267.9	2260.4	2202.9	2124.2	2147.9	2176.7	2448.0	2739.3	2383.0
35°	2440.5	2436.7	2438.0	2434.2	2374.2	2257.9	2211.7	2250.4	2473.0	2818.1	2413.0
37.5°	2589.3	2599.3	2641.8	2641.8	2578.0	2451.7	2390.5	2379.2	2564.3	2946.8	2484.2
40°	2738.0	2763.0	2816.8	2901.8	2811.8	2694.3	2595.5	2578.0	2674.3	3119.4	2655.5
42.5°	2880.6	2921.8	3028.1	3154.4	3124.4	3006.8	2875.6	2855.6	2900.6	3375.7	2894.3
45°	3063.1	3098.1	3265.6	3459.4	3500.7	3396.9	3243.1	3226.9	3224.4	3750.7	3223.1
47.5°	3340.7	3378.2	3545.7	3740.7	3868.3	3884.5	3712.0	3694.5	3634.5	4257.1	3704.5
50°	3688.2	3749.5	3890.8	4118.3	4303.4	4477.1	4428.4	4377.1	4259.6	4846.0	4314.6
52.5°	3942.0	4017.0	4208.3	4499.6	4826.0	5102.3	5277.3	5277.3	5007.2	5492.3	5048.5
55°	4009.5	4054.6	4295.8	4717.2	5276.0	5974.9	6341.3	6313.7	5897.4	6172.5	5902.4
57.5°	3740.7	3799.5	4092.1	4533.4	5512.3	6791.3	7397.7	7404.0	6870.1	6962.6	6745.1
60°	3000.6	3019.3	3364.4	3954.5	5284.8	7449.0	8840.5	8864.3	7976.6	7666.5	7173.9
62.5°	2074.2	2134.2	2394.2	2911.8	4378.4	7375.2	10232.0	10349.5	8863.0	8037.8	7241.4
65°	1365.3	1401.5	1540.3	1855.4	3048.1	6392.5	10664.6	11027.2	9540.6	8059.1	6958.9
67.5°	990.2	996.4	1037.7	1200.2	1831.6	4597.2	9925.7	10437.1	9794.4	7881.6	6296.2
70°	800.2	805.2	820.2	923.9	1182.7	2876.8	8095.4	8896.8	9033.0	7040.1	5071.0
72.5°	650.1	656.4	675.1	772.7	975.2	1600.3	5919.9	6896.4	7347.7	5208.5	3370.7
75°	511.4	516.4	561.4	657.6	916.4	1099.0	3927.0	4883.5	4944.7	3044.4	1577.8
77.5°	350.1	358.8	413.8	557.6	862.7	961.4	2448.0	3128.1	2806.8	1191.5	542.6
80°	222.5	235.0	267.6	422.6	762.7	917.7	1522.8	1867.9	1229.0	407.6	261.3
82.5°	131.3	143.8	176.3	273.8	598.9	851.4	1072.7	1169.0	576.4	208.8	157.5
85°	72.5	81.3	106.3	165.0	351.3	756.4	858.9	838.9	330.1	111.3	98.8
87.5°	23.8	27.5	38.8	66.3	145.0	356.3	515.1	483.8	171.3	51.3	38.8
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°	3055.6	3055.6	3055.6	3055.6	3055.6	3055.6	3055.6	3055.6	3055.6	3055.6	3055.6
2.5°	3053.1	3049.4	2993.1	2950.6	2878.1	2818.1	2794.3	2761.8	2760.5	2736.8	2730.5
5°	2979.3	2940.6	2854.3	2771.8	2643.0	2556.8	2478.0	2423.0	2400.5	2351.7	2340.5
7.5°	2884.3	2833.1	2700.5	2545.5	2394.2	2259.2	2136.7	2014.1	1945.4	1921.6	1895.4
10°	2785.6	2695.5	2499.2	2325.5	2114.2	1906.6	1714.1	1541.6	1447.8	1381.5	1352.8
12.5°	2706.8	2586.8	2336.7	2076.7	1797.9	1520.3	1296.5	1115.2	1008.9	958.9	936.4
15°	2618.0	2459.2	2159.2	1830.4	1482.8	1167.7	948.9	806.4	763.9	740.1	736.4
17.5°	2524.2	2340.5	1966.6	1587.8	1175.2	878.9	737.6	680.1	661.4	651.4	646.4
20°	2436.7	2234.2	1769.1	1317.8	920.2	705.1	638.9	608.9	607.6	612.6	611.4
22.5°	2313.0	2095.4	1574.1	1067.7	735.1	613.9	571.4	563.9	571.4	577.6	580.1
25°	2242.9	1981.6	1356.5	847.7	607.6	545.1	531.4	528.9	540.1	547.6	546.4
27.5°	2170.4	1864.1	1154.0	678.9	532.6	496.3	493.8	496.3	507.6	518.9	517.6
30°	2114.2	1770.4	963.9	567.6	475.1	461.3	458.8	461.3	467.6	468.8	468.8
32.5°	2067.9	1659.1	802.7	492.6	440.1	428.8	431.3	430.1	431.3	432.6	433.8
35°	2040.4	1592.8	670.1	446.3	411.3	402.6	401.3	397.6	398.8	400.1	398.8
37.5°	2099.2	1560.3	565.1	413.8	391.3	383.8	381.3	378.8	375.1	375.1	375.1
40°	2187.9	1542.8	501.3	392.6	376.3	367.6	360.1	357.6	357.6	358.8	360.1
42.5°	2364.2	1571.6	457.6	376.3	357.6	347.6	340.1	341.3	345.1	348.8	346.3
45°	2619.3	1659.1	437.6	363.8	346.3	332.6	327.6	326.3	330.1	336.3	341.3
47.5°	2953.1	1795.4	430.1	352.6	338.8	320.1	313.8	317.6	322.6	331.3	327.6
50°	3499.4	2101.7	436.3	342.6	327.6	313.8	306.3	302.6	306.3	312.6	315.1
52.5°	4213.3	2658.0	460.1	337.6	320.1	308.8	296.3	290.1	293.8	298.8	298.8
55°	5067.3	3418.2	526.4	331.3	307.6	301.3	287.6	275.1	277.6	277.6	276.3
57.5°	5819.9	3992.0	605.1	322.6	300.1	291.3	273.8	258.8	256.3	257.6	258.8
60°	6157.5	4144.6	642.6	320.1	300.1	278.8	255.1	240.0	236.3	233.8	233.8
62.5°	6098.7	3880.8	566.4	308.8	307.6	268.8	237.5	221.3	216.3	211.3	212.5
65°	5743.6	3504.4	446.3	293.8	308.8	262.6	220.0	203.8	195.0	188.8	187.5
67.5°	5094.8	2991.8	353.8	282.6	296.3	251.3	205.0	186.3	178.8	172.5	170.0
70°	3985.8	2345.5	307.6	267.6	266.3	223.8	187.5	171.3	160.0	152.5	152.5
72.5°	2584.3	1482.8	263.8	237.5	230.0	187.5	162.5	152.5	143.8	137.5	137.5
75°	1170.2	688.9	212.5	198.8	187.5	150.0	137.5	132.5	125.0	118.8	118.8
77.5°	420.1	293.8	158.8	156.3	140.0	116.3	111.3	107.5	102.5	96.3	96.3
80°	235.0	186.3	118.8	113.8	97.5	86.3	80.0	80.0	77.5	73.8	72.5
82.5°	148.8	121.3	87.5	76.3	63.8	57.5	55.0	53.8	52.5	47.5	46.3
85°	93.8	82.5	57.5	45.0	37.5	28.8	27.5	26.3	23.8	21.3	21.3
87.5°	42.5	47.5	22.5	13.8	10.0	6.3	3.8	1.3	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)