

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: P483967

Luminaire Tested: **IFLD-S-SA3A-735-U-SL2-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P483967
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-735-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2
distribution lens with House Side Shield
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

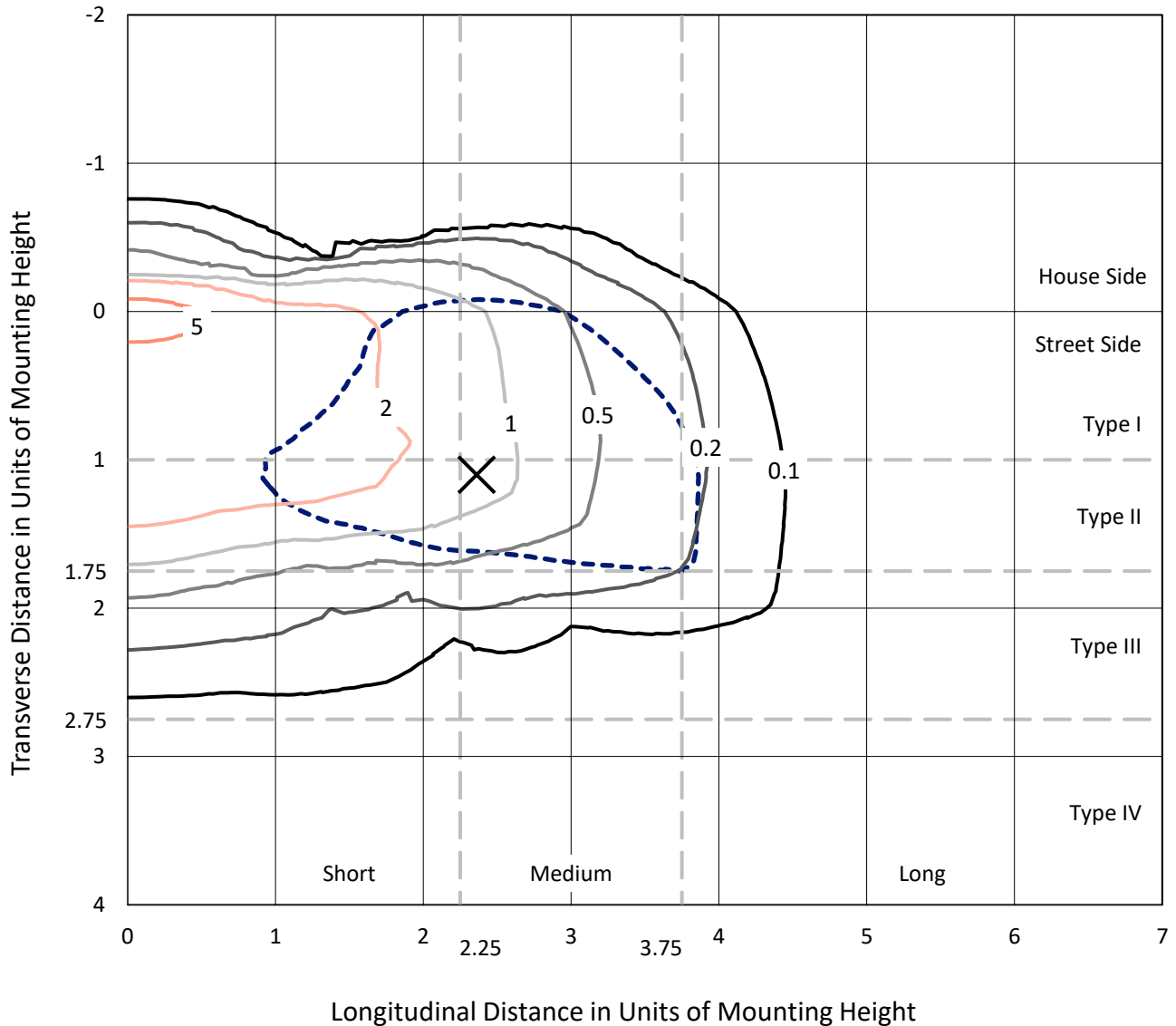
Lumens per Lamp: N/A
Luminaire Lumens: 11168.8 lumens
Efficiency: N/A
Efficacy: 117.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 94.8
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

REPORT NUMBER: P483967
 CATALOG NUMBER: IFLD-S-SA3A-735-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

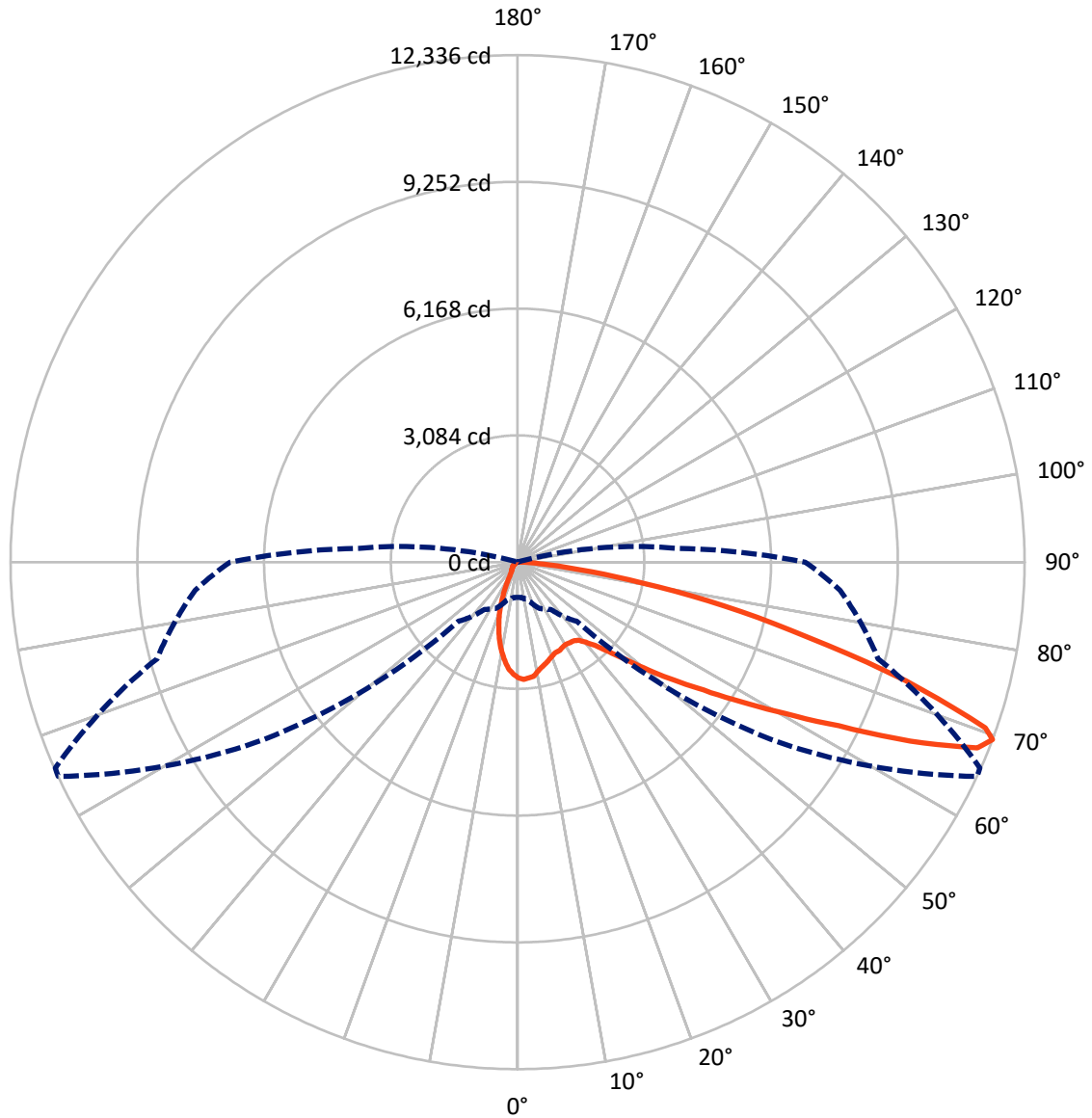
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7 fc
 Type II - Medium - N/A

REPORT NUMBER: P483967
CATALOG NUMBER: IFLD-S-SA3A-735-U-SL2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P483967
 CATALOG NUMBER: IFLD-S-SA3A-735-U-SL2-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1354.8	0.0	1354.8
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	9814.0	0.0	9814.0
	% Fixture	87.9	0.0	87.9
Total	Lumens	11168.8	0.0	11168.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.4	2.1
10°-20°	504.2	4.5
20°-30°	701.9	6.3
30°-40°	994.7	8.9
40°-50°	1567.6	14.0
50°-60°	2543.7	22.8
60°-70°	2840.8	25.4
70°-80°	1599.7	14.3
80°-90°	185.6	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°	11168.8	100.0
0°-180°	11168.8	100.0

Coefficient of Utilization



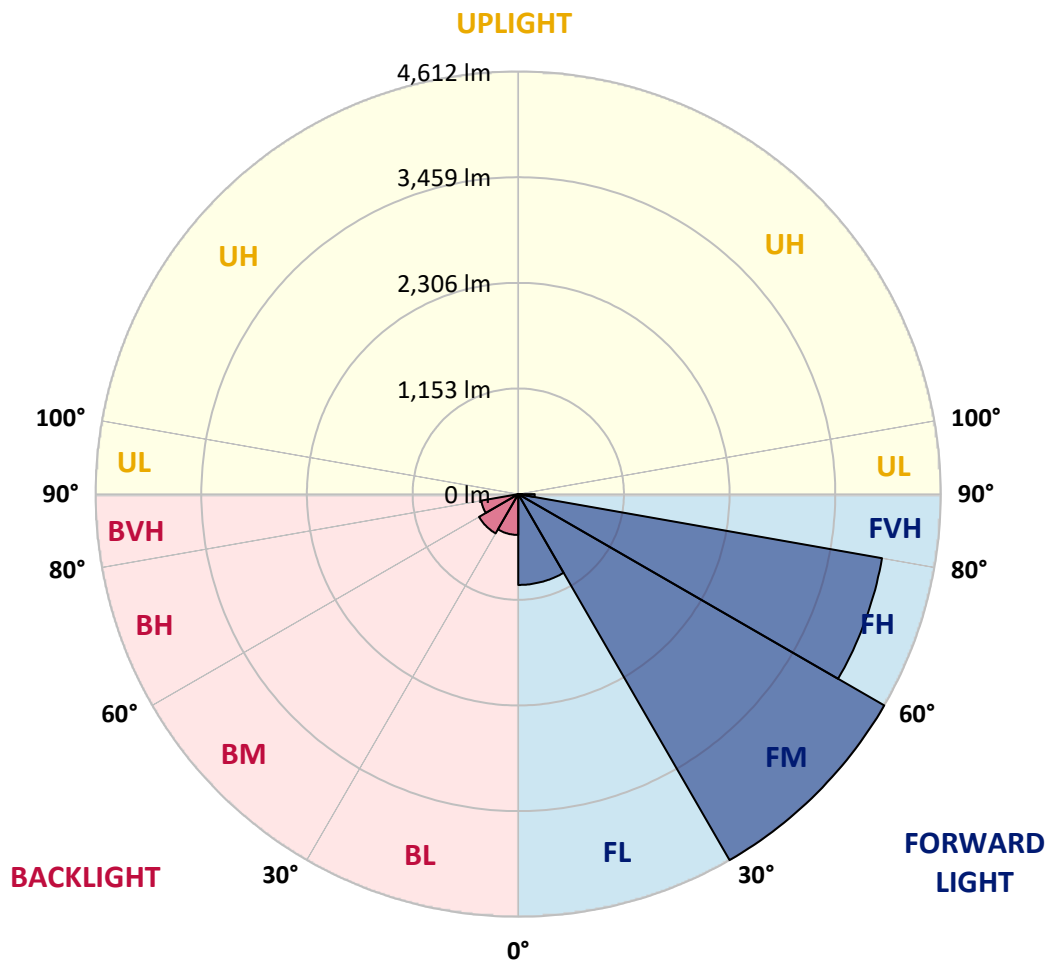
REPORT NUMBER: P483967
 CATALOG NUMBER: IFLD-S-SA3A-735-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	991.1	8.9			
FM (30°-60°)	4611.7	41.3			
FH (60°-80°)	4030.6	36.1			G2/5000
FVH (80°-90°)	180.5	1.6			G2/225
BL (0°-30°)	445.4	4.0	B1/500		
BM (30°-60°)	494.4	4.4	B1/1000		
BH (60°-80°)	409.9	3.7	B1/500		G1/500
BVH (80°-90°)	5.1	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 II Medium





REPORT NUMBER: P483967

CATALOG NUMBER: IFLD-S-SA3A-735-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2815.9	2815.9	2815.9	2815.9	2815.9	2815.9	2815.9	2815.9	2815.9	2815.9	2815.9
2.5°	2712.0	2733.1	2739.1	2760.2	2770.7	2815.9	2841.5	2856.6	2849.1	2865.6	2867.2
5°	2519.1	2507.1	2538.7	2561.3	2609.5	2687.9	2767.7	2829.5	2858.1	2885.2	2880.7
7.5°	2312.7	2306.7	2338.3	2389.5	2433.2	2528.2	2656.2	2808.4	2802.4	2868.7	2888.2
10°	2171.1	2177.1	2187.7	2238.9	2303.7	2400.1	2559.8	2701.4	2733.1	2873.2	2912.4
12.5°	2041.5	2052.1	2071.6	2124.4	2199.7	2299.1	2454.3	2620.1	2668.3	2847.6	2925.9
15°	1999.3	1975.2	2014.4	2053.6	2131.9	2220.8	2351.9	2558.3	2579.4	2817.4	2948.5
17.5°	1964.7	1949.6	1967.7	1999.3	2082.2	2154.5	2278.1	2492.0	2531.2	2805.4	2945.5
20°	1975.2	1961.7	1969.2	1993.3	2031.0	2098.8	2213.3	2428.7	2470.9	2749.6	2941.0
22.5°	2005.3	2015.9	2002.3	2008.4	2020.4	2055.1	2178.6	2383.5	2419.7	2739.1	2966.6
25°	2140.9	2122.9	2104.8	2097.3	2026.4	2041.5	2168.1	2380.5	2406.1	2701.4	2945.5
27.5°	2282.6	2267.5	2260.0	2216.3	2119.9	2074.7	2169.6	2338.3	2373.0	2686.4	2919.9
30°	2454.3	2473.9	2443.8	2391.1	2257.0	2145.5	2186.1	2317.2	2365.4	2629.1	2903.3
32.5°	2635.1	2645.7	2660.7	2621.6	2448.3	2252.4	2235.9	2336.8	2339.8	2629.1	2865.6
35°	2840.0	2825.0	2864.1	2867.2	2715.0	2442.3	2330.8	2350.4	2382.0	2617.0	2852.1
37.5°	3016.3	3041.9	3087.1	3159.4	3002.8	2710.5	2478.4	2413.7	2427.2	2672.8	2862.6
40°	3209.2	3234.8	3337.2	3409.5	3320.7	3011.8	2702.9	2561.3	2571.8	2755.7	2916.9
42.5°	3421.6	3471.3	3593.4	3719.9	3695.8	3394.5	2992.2	2778.3	2773.7	2962.1	3028.4
45°	3709.4	3775.7	3908.2	4054.4	4075.5	3832.9	3377.9	3102.2	3117.3	3231.8	3258.9
47.5°	4110.1	4107.1	4236.7	4399.4	4521.5	4287.9	3838.9	3537.6	3536.1	3658.1	3600.9
50°	4497.3	4498.9	4533.5	4721.8	5038.2	4919.2	4410.0	4116.2	4099.6	4159.9	4068.0
52.5°	4676.6	4655.5	4629.9	4857.4	5436.0	5714.7	5133.2	4771.6	4758.0	4721.8	4697.7
55°	4488.3	4495.8	4494.3	4730.9	5645.4	6553.9	6061.2	5493.2	5470.6	5357.6	5390.8
57.5°	3884.1	3860.0	3912.8	4281.9	5405.9	7126.4	7388.6	6403.3	6344.5	5969.3	5894.0
60°	2891.3	2898.8	2942.5	3377.9	4810.7	7247.0	8658.7	7471.5	7218.4	6400.2	6296.3
62.5°	2018.9	2003.8	2020.4	2264.5	3439.7	6764.9	9517.5	8770.2	8526.1	6889.9	6829.6
65°	1444.9	1425.3	1491.6	1640.7	2065.6	5172.3	9639.5	10499.8	10281.4	7671.9	7527.2
67.5°	1039.6	1036.6	1113.4	1384.6	1467.5	2978.6	8735.5	12066.7	11934.2	8599.9	7952.1
69°	860.3	861.8	935.6	1240.0	1401.2	2034.0	7516.7	12336.4	12312.3	9079.1	7872.2
70°	750.3	756.3	842.2	1154.1	1374.1	1672.4	6480.1	12071.3	12047.2	9172.5	7608.6
72.5°	462.5	467.1	580.1	925.1	1306.3	1365.0	3875.1	9876.1	9958.9	8744.6	6555.4
75°	221.5	223.0	304.3	669.0	1259.6	1294.2	2076.2	7287.7	7462.4	7060.2	5122.6
77.5°	117.5	117.5	146.1	355.6	1020.0	1217.4	1232.4	5140.7	5285.3	4464.2	2912.4
80°	58.8	60.3	88.9	185.3	632.8	1193.3	962.7	3066.0	3144.4	1821.5	907.0
82.5°	22.6	24.1	42.2	111.5	328.4	1007.9	845.2	1508.2	1488.6	426.4	221.5
85°	3.0	3.0	15.1	66.3	140.1	444.5	697.6	629.8	608.7	93.4	107.0
87.5°	0.0	0.0	3.0	19.6	42.2	129.6	269.7	173.3	192.9	25.6	52.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P483967

CATALOG NUMBER: IFLD-S-SA3A-735-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2815.9	2815.9	2815.9	2815.9	2815.9	2815.9	2815.9	2815.9	2815.9	2815.9	2815.9
2.5°	2859.6	2828.0	2779.8	2733.1	2683.3	2623.1	2556.8	2532.7	2490.5	2487.5	2511.6
5°	2856.6	2805.4	2721.0	2621.6	2479.9	2373.0	2257.0	2172.6	2107.8	2065.6	2076.2
7.5°	2871.7	2809.9	2663.8	2449.8	2267.5	2055.1	1875.8	1752.2	1639.2	1583.5	1577.5
10°	2847.6	2764.7	2550.8	2250.9	1982.7	1685.9	1423.8	1258.1	1089.3	1027.5	1030.5
12.5°	2861.1	2745.1	2428.7	2046.0	1676.9	1291.2	977.8	751.8	593.6	542.4	536.4
15°	2870.2	2702.9	2311.2	1800.4	1337.9	879.9	566.5	426.4	376.7	367.6	366.1
17.5°	2835.5	2651.7	2145.5	1557.9	991.4	534.9	376.7	348.0	339.0	333.0	330.0
20°	2834.0	2621.6	2002.3	1309.3	661.4	364.6	325.4	314.9	301.3	296.8	296.8
22.5°	2808.4	2558.3	1830.6	1036.6	421.9	313.4	292.3	275.7	260.7	254.6	253.1
25°	2800.9	2484.5	1669.4	778.9	320.9	280.2	259.1	235.0	217.0	207.9	203.4
27.5°	2779.8	2421.2	1506.6	548.4	280.2	250.1	223.0	197.4	176.3	162.7	161.2
30°	2704.4	2354.9	1325.9	379.7	254.6	221.5	191.3	161.2	140.1	131.1	128.1
32.5°	2672.8	2293.1	1128.5	292.3	232.0	195.9	161.2	134.1	117.5	108.5	107.0
35°	2635.1	2202.7	937.1	254.6	210.9	170.3	135.6	113.0	99.4	91.9	91.9
37.5°	2639.6	2130.4	757.8	230.5	188.3	146.1	116.0	96.4	84.4	76.8	76.8
40°	2626.1	2073.1	589.1	209.4	167.2	125.1	97.9	81.4	70.8	63.3	61.8
42.5°	2687.9	2058.1	444.5	191.3	146.1	107.0	84.4	69.3	58.8	49.7	49.7
45°	2791.8	2082.2	346.5	174.8	125.1	91.9	72.3	57.3	46.7	40.7	39.2
47.5°	3069.0	2177.1	271.2	161.2	107.0	79.9	60.3	46.7	37.7	31.6	30.1
50°	3471.3	2389.5	230.5	141.6	90.4	67.8	49.7	36.2	30.1	24.1	22.6
52.5°	4043.8	2746.6	209.4	125.1	75.3	55.7	39.2	28.6	22.6	18.1	16.6
55°	4667.6	3192.6	189.8	105.5	63.3	45.2	31.6	22.6	16.6	12.1	10.5
57.5°	5154.2	3578.3	173.3	87.4	51.2	36.2	24.1	16.6	12.1	7.5	6.0
60°	5686.1	3849.5	152.2	69.3	42.2	27.1	18.1	12.1	9.0	4.5	4.5
62.5°	6234.5	4167.4	125.1	54.2	33.1	21.1	13.6	9.0	6.0	1.5	1.5
65°	6996.9	4416.0	96.4	42.2	25.6	15.1	10.5	7.5	3.0	0.0	0.0
67.5°	7212.3	4293.9	70.8	33.1	18.1	10.5	7.5	4.5	1.5	0.0	0.0
69°	6996.9	3867.6	61.8	28.6	15.1	9.0	6.0	3.0	1.5	0.0	0.0
70°	6603.6	3536.1	54.2	24.1	13.6	9.0	4.5	3.0	1.5	0.0	0.0
72.5°	5523.4	2712.0	42.2	18.1	10.5	7.5	4.5	3.0	0.0	0.0	0.0
75°	4051.4	1675.4	31.6	13.6	9.0	6.0	4.5	3.0	0.0	0.0	0.0
77.5°	2171.1	611.7	22.6	9.0	6.0	4.5	4.5	3.0	0.0	0.0	0.0
80°	595.1	180.8	16.6	6.0	4.5	3.0	3.0	1.5	0.0	0.0	0.0
82.5°	162.7	46.7	10.5	6.0	4.5	3.0	1.5	0.0	0.0	0.0	0.0
85°	87.4	18.1	6.0	4.5	3.0	1.5	0.0	0.0	0.0	0.0	0.0
87.5°	45.2	6.0	4.5	3.0	3.0	1.5	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)