

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: P484143

Luminaire Tested: **IFLD-M-SA4A-827-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484143
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-827-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (64) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

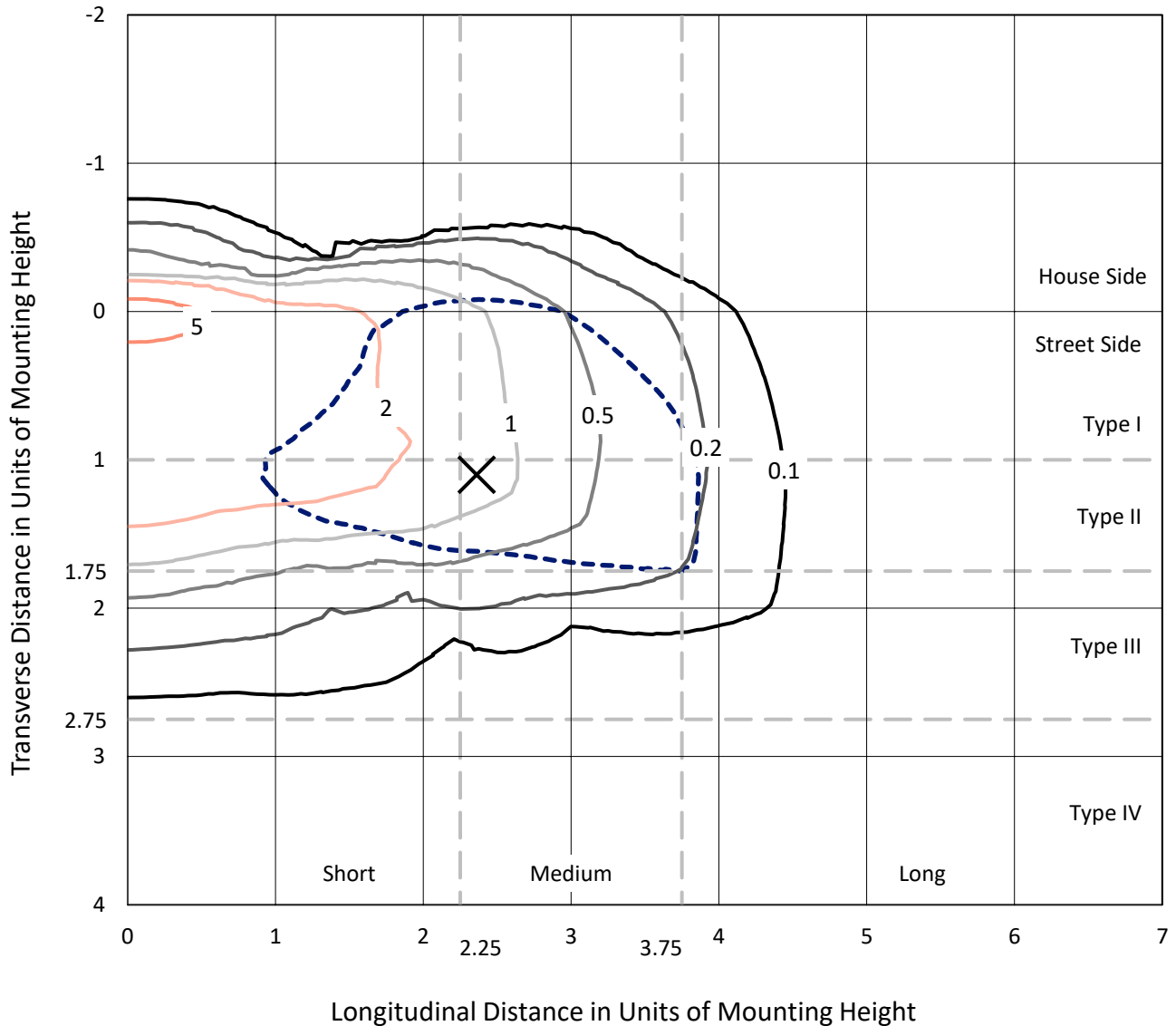
Lumens per Lamp: N/A
Luminaire Lumens: 11173.2 lumens
Efficiency: N/A
Efficacy: 86.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 128.6
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: P484143
 CATALOG NUMBER: IFLD-M-SA4A-827-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

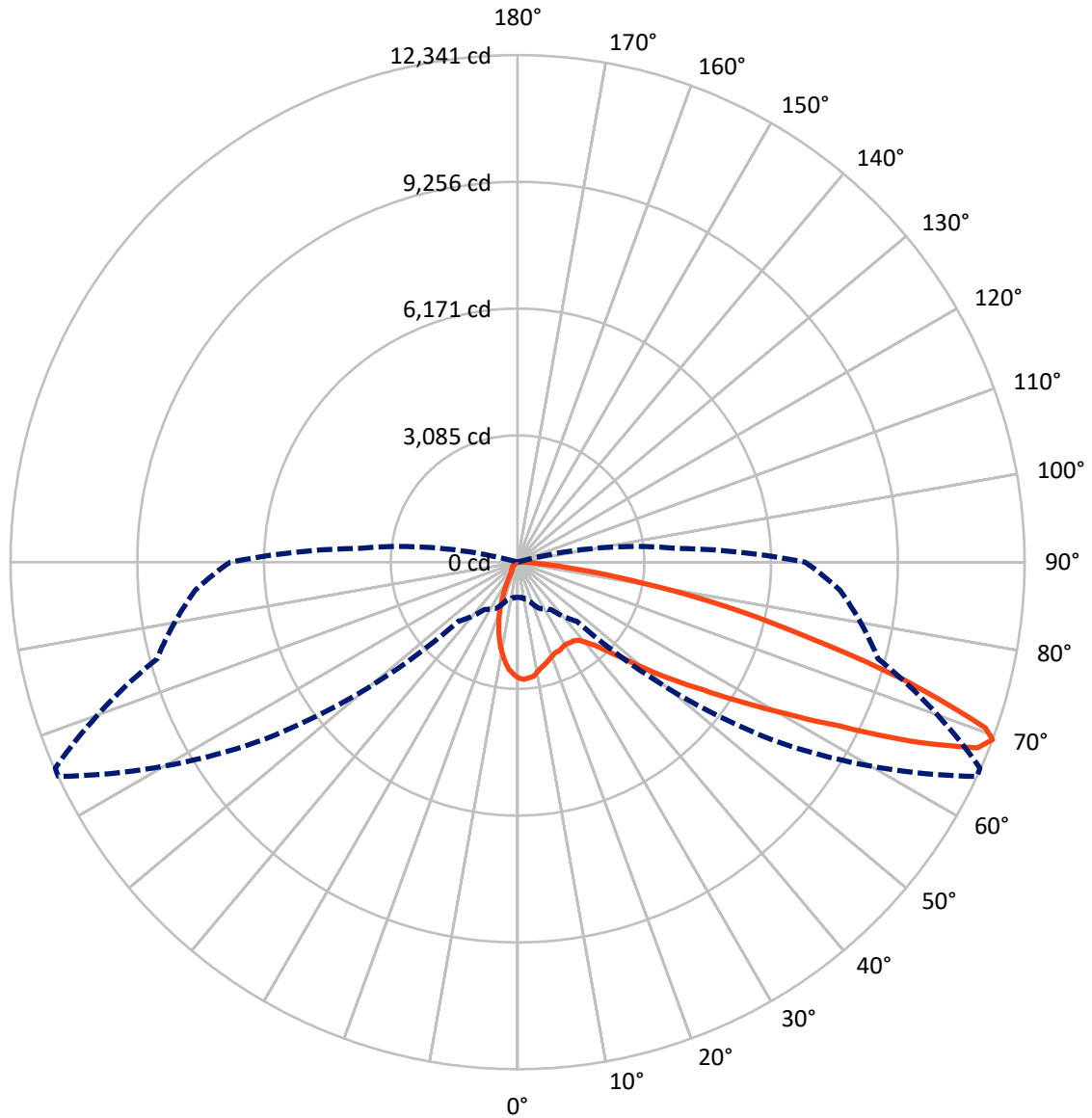
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P484143
CATALOG NUMBER: IFLD-M-SA4A-827-U-SL2-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P484143
 CATALOG NUMBER: IFLD-M-SA4A-827-U-SL2-HSS

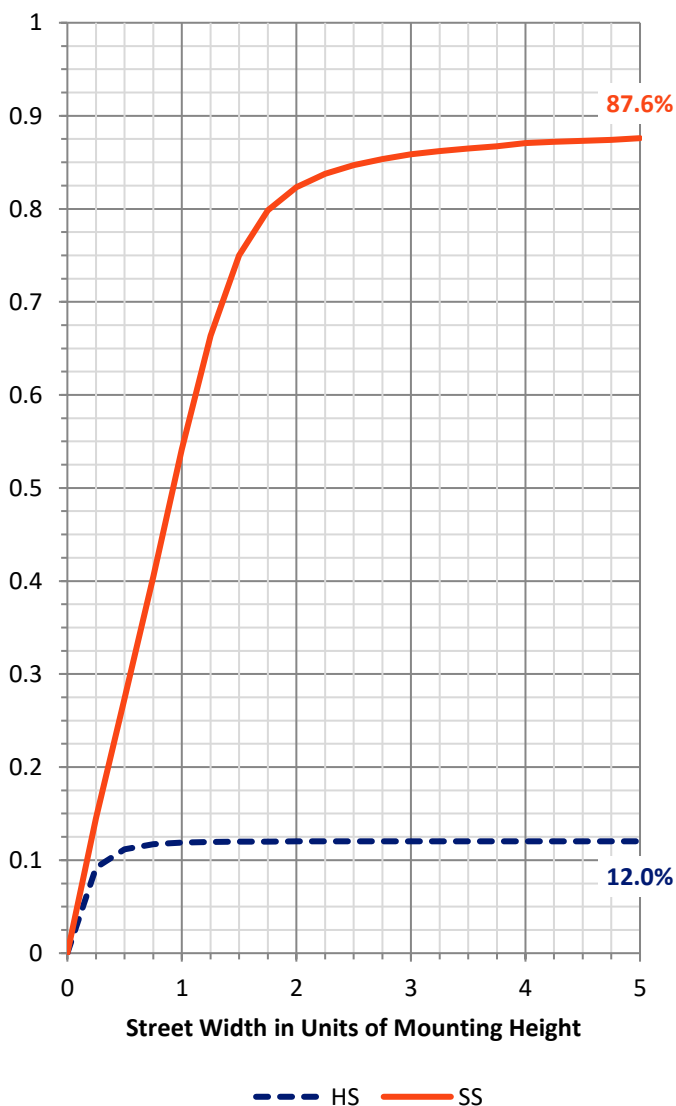
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1355.4	0.0	1355.4
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	9817.8	0.0	9817.8
	% Fixture	87.9	0.0	87.9
Total	Lumens	11173.2	0.0	11173.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.5	2.1
10°-20°	504.4	4.5
20°-30°	702.2	6.3
30°-40°	995.1	8.9
40°-50°	1568.3	14.0
50°-60°	2544.7	22.8
60°-70°	2842.0	25.4
70°-80°	1600.3	14.3
80°-90°	185.7	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°	11173.2	100.0
0°-180°	11173.2	100.0

Coefficient of Utilization

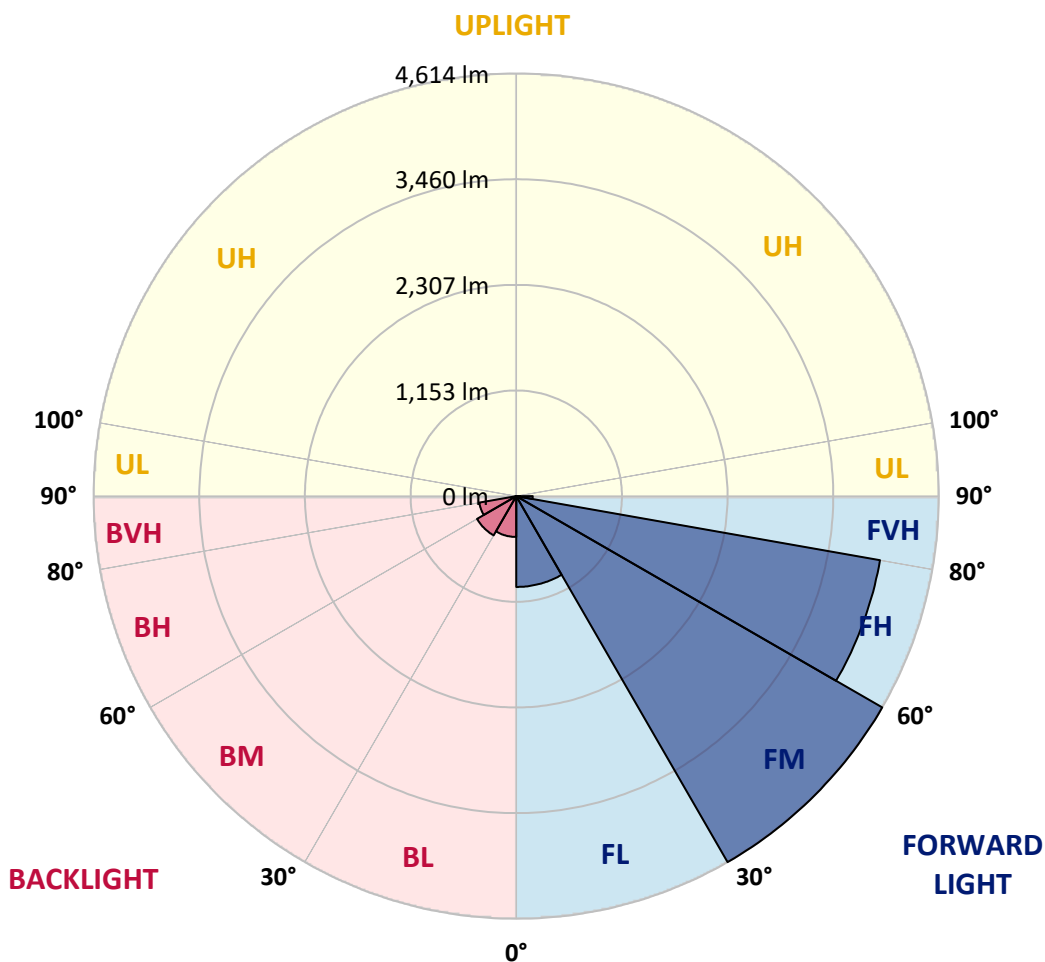


REPORT NUMBER: P484143
 CATALOG NUMBER: IFLD-M-SA4A-827-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	991.5	8.9			
FM (30°-60°)	4613.5	41.3			
FH (60°-80°)	4032.2	36.1			G2/5000
FVH (80°-90°)	180.6	1.6			G2/225
BL (0°-30°)	445.6	4.0	B1/500		
BM (30°-60°)	494.6	4.4	B1/1000		
BH (60°-80°)	410.1	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: P484143

CATALOG NUMBER: IFLD-M-SA4A-827-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2817.0	2817.0	2817.0	2817.0	2817.0	2817.0	2817.0	2817.0	2817.0	2817.0	2817.0
2.5°	2713.0	2734.1	2740.2	2761.3	2771.8	2817.0	2842.7	2857.7	2850.2	2866.8	2868.3
5°	2520.1	2508.0	2539.7	2562.3	2610.5	2688.9	2768.8	2830.6	2859.2	2886.4	2881.8
7.5°	2313.6	2307.6	2339.2	2390.5	2434.2	2529.1	2657.3	2809.5	2803.5	2869.8	2889.4
10°	2171.9	2178.0	2188.5	2239.8	2304.6	2401.0	2560.8	2702.5	2734.1	2874.3	2913.5
12.5°	2042.3	2052.9	2072.5	2125.2	2200.6	2300.0	2455.3	2621.1	2669.3	2848.7	2927.1
15°	2000.1	1976.0	2015.2	2054.4	2132.7	2221.7	2352.8	2559.3	2580.4	2818.5	2949.7
17.5°	1965.4	1950.4	1968.5	2000.1	2083.0	2155.4	2278.9	2493.0	2532.2	2806.5	2946.7
20°	1976.0	1962.4	1970.0	1994.1	2031.8	2099.6	2214.1	2429.7	2471.9	2750.7	2942.1
22.5°	2006.1	2016.7	2003.1	2009.2	2021.2	2055.9	2179.5	2384.5	2420.6	2740.2	2967.8
25°	2141.8	2123.7	2105.6	2098.1	2027.2	2042.3	2168.9	2381.4	2407.1	2702.5	2946.7
27.5°	2283.5	2268.4	2260.9	2217.2	2120.7	2075.5	2170.4	2339.2	2373.9	2687.4	2921.0
30°	2455.3	2474.9	2444.7	2392.0	2257.8	2146.3	2187.0	2318.1	2366.4	2630.1	2904.5
32.5°	2636.2	2646.7	2661.8	2622.6	2449.3	2253.3	2236.7	2337.7	2340.7	2630.1	2866.8
35°	2841.1	2826.1	2865.3	2868.3	2716.0	2443.2	2331.7	2351.3	2382.9	2618.1	2853.2
37.5°	3017.5	3043.1	3088.3	3160.7	3003.9	2711.5	2479.4	2414.6	2428.2	2673.8	2863.8
40°	3210.4	3236.0	3338.5	3410.9	3322.0	3013.0	2704.0	2562.3	2572.9	2756.7	2918.0
42.5°	3422.9	3472.7	3594.8	3721.4	3697.3	3395.8	2993.4	2779.4	2774.8	2963.2	3029.6
45°	3710.8	3777.1	3909.8	4056.0	4077.1	3834.4	3379.2	3103.4	3118.5	3233.0	3260.2
47.5°	4111.8	4108.7	4238.4	4401.1	4523.2	4289.6	3840.4	3539.0	3537.5	3659.6	3602.3
50°	4499.1	4500.6	4535.3	4723.7	5040.2	4921.1	4411.7	4117.8	4101.2	4161.5	4069.5
52.5°	4678.5	4657.4	4631.7	4859.3	5438.1	5717.0	5135.2	4773.4	4759.9	4723.7	4699.6
55°	4490.1	4497.6	4496.1	4732.7	5647.6	6556.5	6063.6	5495.4	5472.8	5359.7	5392.9
57.5°	3885.7	3861.5	3914.3	4283.6	5408.0	7129.2	7391.5	6405.8	6347.0	5971.7	5896.3
60°	2892.4	2899.9	2943.6	3379.2	4812.6	7249.8	8662.1	7474.4	7221.2	6402.8	6298.8
62.5°	2019.7	2004.6	2021.2	2265.4	3441.0	6767.5	9521.2	8773.6	8529.5	6892.6	6832.3
65°	1445.4	1425.8	1492.2	1641.4	2066.4	5174.4	9643.3	10504.0	10285.4	7674.9	7530.2
67.5°	1040.0	1037.0	1113.9	1385.2	1468.1	2979.8	8739.0	12071.5	11938.8	8603.3	7955.2
69°	860.6	862.1	936.0	1240.5	1401.7	2034.8	7519.6	12341.3	12317.2	9082.6	7875.3
70°	750.6	756.6	842.5	1154.5	1374.6	1673.0	6482.6	12076.0	12051.9	9176.1	7611.6
72.5°	462.7	467.2	580.3	925.4	1306.8	1365.6	3876.6	9880.0	9962.9	8748.0	6558.0
75°	221.6	223.1	304.5	669.2	1260.1	1294.7	2077.0	7290.5	7465.4	7062.9	5124.6
77.5°	117.6	117.6	146.2	355.7	1020.4	1217.8	1232.9	5142.7	5287.4	4466.0	2913.5
80°	58.8	60.3	88.9	185.4	633.0	1193.7	963.1	3067.2	3145.6	1822.3	907.4
82.5°	22.6	24.1	42.2	111.5	328.6	1008.3	845.6	1508.7	1489.2	426.5	221.6
85°	3.0	3.0	15.1	66.3	140.2	444.6	697.9	630.0	608.9	93.4	107.0
87.5°	0.0	0.0	3.0	19.6	42.2	129.6	269.8	173.3	192.9	25.6	52.8
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: P484143

CATALOG NUMBER: IFLD-M-SA4A-827-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2817.0	2817.0	2817.0	2817.0	2817.0	2817.0	2817.0	2817.0	2817.0	2817.0	2817.0
2.5°	2860.7	2829.1	2780.9	2734.1	2684.4	2624.1	2557.8	2533.7	2491.5	2488.5	2512.6
5°	2857.7	2806.5	2722.1	2622.6	2480.9	2373.9	2257.8	2173.4	2108.6	2066.4	2077.0
7.5°	2872.8	2811.0	2664.8	2450.8	2268.4	2055.9	1876.5	1752.9	1639.9	1584.1	1578.1
10°	2848.7	2765.8	2551.8	2251.8	1983.5	1686.6	1424.3	1258.5	1089.7	1027.9	1031.0
12.5°	2862.2	2746.2	2429.7	2046.8	1677.6	1291.7	978.2	752.1	593.9	542.6	536.6
15°	2871.3	2704.0	2312.1	1801.2	1338.4	880.2	566.7	426.5	376.8	367.8	366.3
17.5°	2836.6	2652.7	2146.3	1558.5	991.8	535.1	376.8	348.2	339.1	333.1	330.1
20°	2835.1	2622.6	2003.1	1309.8	661.7	364.8	325.6	315.0	301.4	296.9	296.9
22.5°	2809.5	2559.3	1831.3	1037.0	422.0	313.5	292.4	275.8	260.8	254.7	253.2
25°	2802.0	2485.4	1670.0	779.2	321.0	280.3	259.2	235.1	217.0	208.0	203.5
27.5°	2780.9	2422.1	1507.2	548.6	280.3	250.2	223.1	197.4	176.3	162.8	161.3
30°	2705.5	2355.8	1326.4	379.8	254.7	221.6	191.4	161.3	140.2	131.1	128.1
32.5°	2673.8	2294.0	1128.9	292.4	232.1	195.9	161.3	134.1	117.6	108.5	107.0
35°	2636.2	2203.6	937.5	254.7	211.0	170.3	135.7	113.0	99.5	91.9	91.9
37.5°	2640.7	2131.2	758.1	230.6	188.4	146.2	116.1	96.5	84.4	76.9	76.9
40°	2627.1	2074.0	589.3	209.5	167.3	125.1	98.0	81.4	70.8	63.3	61.8
42.5°	2688.9	2058.9	444.6	191.4	146.2	107.0	84.4	69.3	58.8	49.7	49.7
45°	2792.9	2083.0	346.7	174.8	125.1	91.9	72.3	57.3	46.7	40.7	39.2
47.5°	3070.2	2178.0	271.3	161.3	107.0	79.9	60.3	46.7	37.7	31.7	30.1
50°	3472.7	2390.5	230.6	141.7	90.4	67.8	49.7	36.2	30.1	24.1	22.6
52.5°	4045.4	2747.7	209.5	125.1	75.4	55.8	39.2	28.6	22.6	18.1	16.6
55°	4669.4	3193.8	189.9	105.5	63.3	45.2	31.7	22.6	16.6	12.1	10.6
57.5°	5156.3	3579.7	173.3	87.4	51.2	36.2	24.1	16.6	12.1	7.5	6.0
60°	5688.3	3851.0	152.2	69.3	42.2	27.1	18.1	12.1	9.0	4.5	4.5
62.5°	6237.0	4169.0	125.1	54.3	33.2	21.1	13.6	9.0	6.0	1.5	1.5
65°	6999.6	4417.7	96.5	42.2	25.6	15.1	10.6	7.5	3.0	0.0	0.0
67.5°	7215.2	4295.6	70.8	33.2	18.1	10.6	7.5	4.5	1.5	0.0	0.0
69°	6999.6	3869.1	61.8	28.6	15.1	9.0	6.0	3.0	1.5	0.0	0.0
70°	6606.2	3537.5	54.3	24.1	13.6	9.0	4.5	3.0	1.5	0.0	0.0
72.5°	5525.5	2713.0	42.2	18.1	10.6	7.5	4.5	3.0	0.0	0.0	0.0
75°	4053.0	1676.1	31.7	13.6	9.0	6.0	4.5	3.0	0.0	0.0	0.0
77.5°	2171.9	611.9	22.6	9.0	6.0	4.5	4.5	3.0	0.0	0.0	0.0
80°	595.4	180.9	16.6	6.0	4.5	3.0	3.0	1.5	0.0	0.0	0.0
82.5°	162.8	46.7	10.6	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)