

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: P484163

Luminaire Tested: **IFLD-S-SA3B-830-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484163
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-830-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (48) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

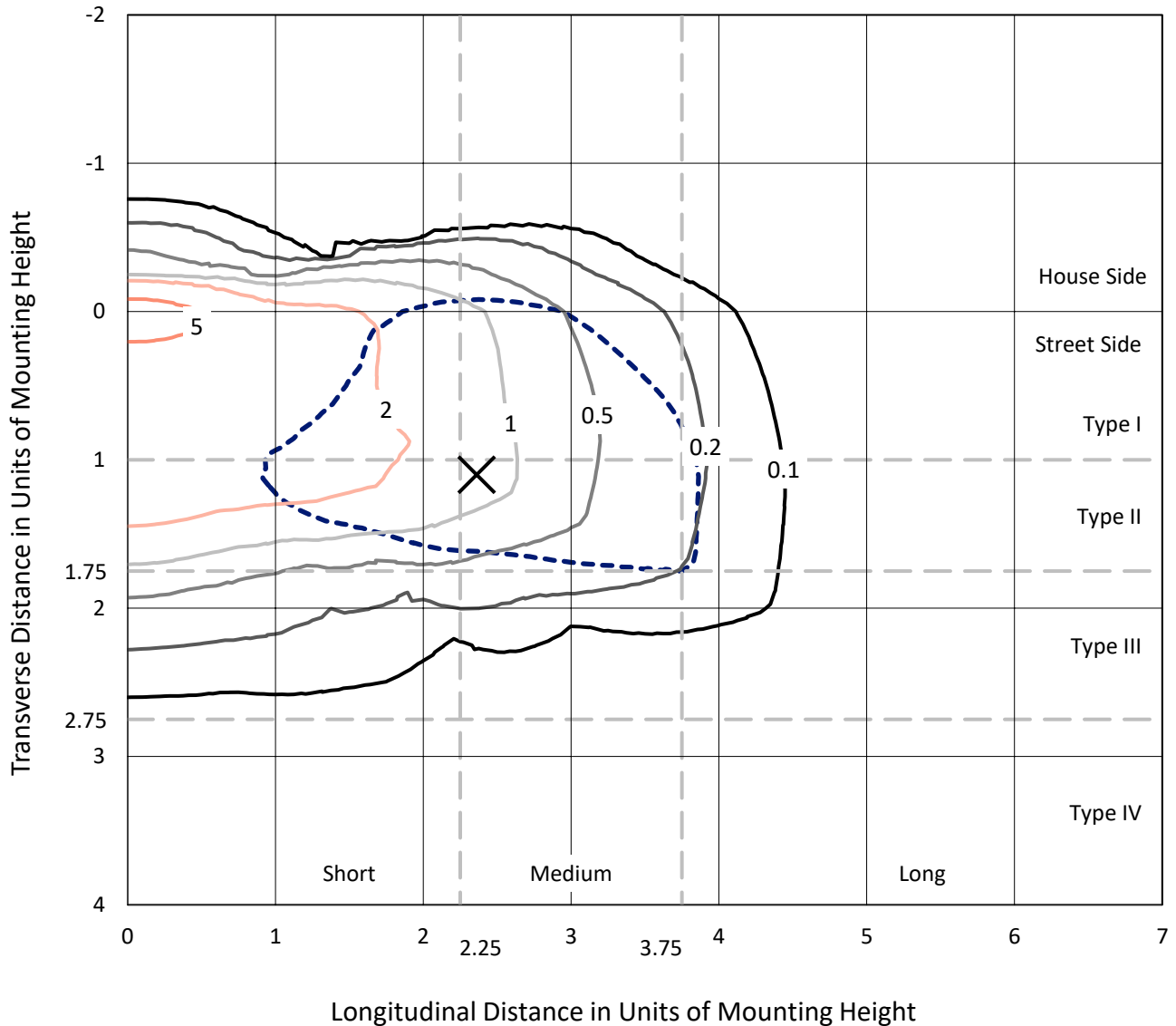
Lumens per Lamp: N/A
Luminaire Lumens: 11128.3 lumens
Efficiency: N/A
Efficacy: 90.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 122.4
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

REPORT NUMBER: P484163
 CATALOG NUMBER: IFLD-S-SA3B-830-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

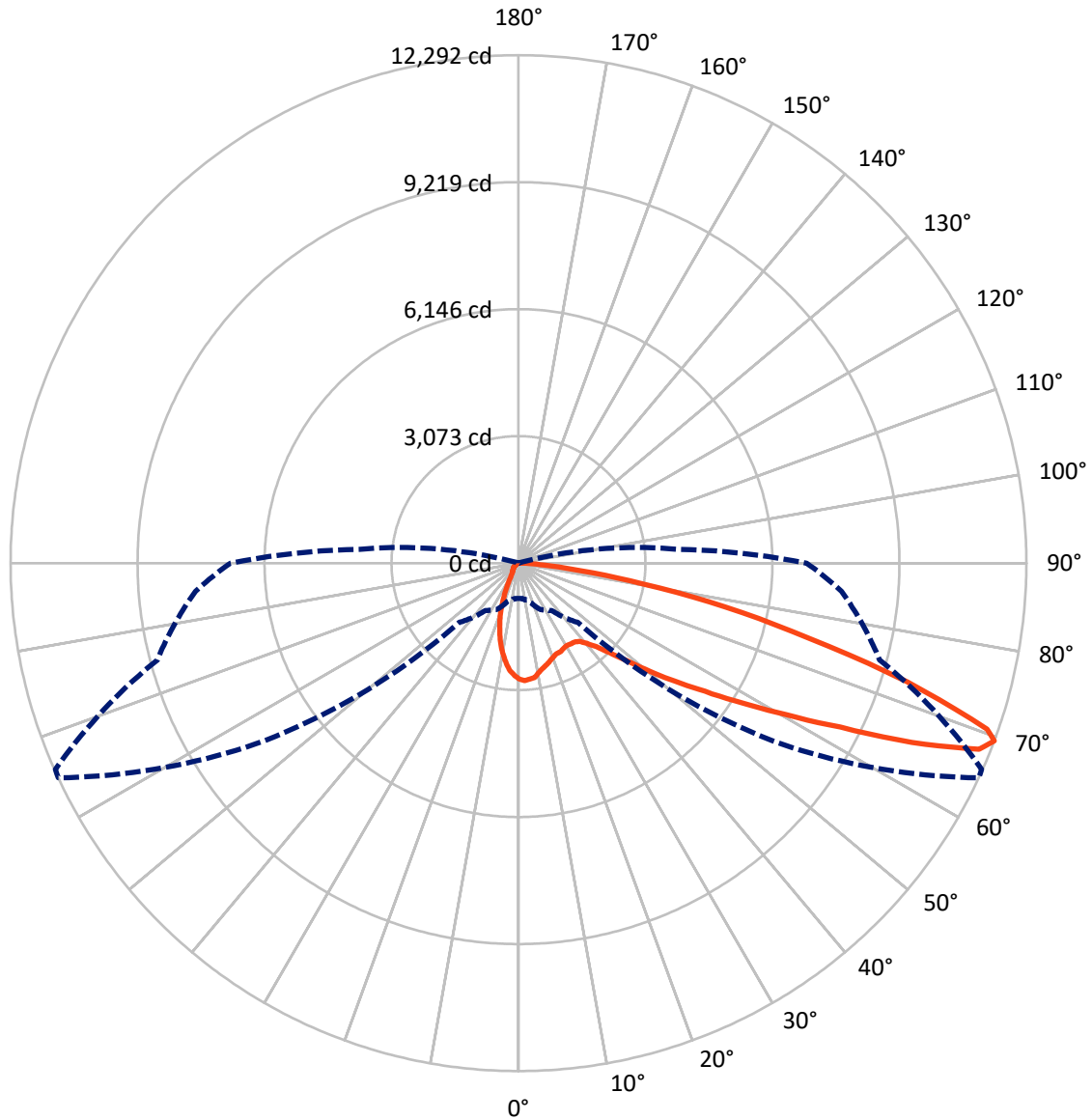
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P484163
CATALOG NUMBER: IFLD-S-SA3B-830-U-SL2-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P484163
 CATALOG NUMBER: IFLD-S-SA3B-830-U-SL2-HSS

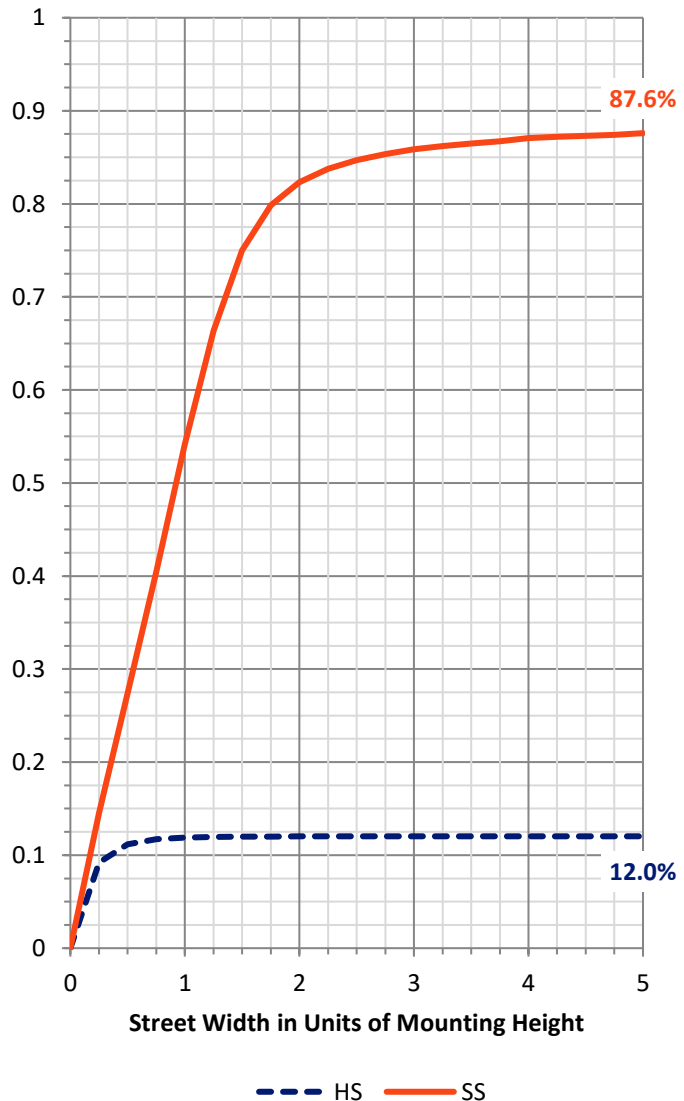
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1349.9	0.0	1349.9
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	9778.4	0.0	9778.4
	% Fixture	87.9	0.0	87.9
Total	Lumens	11128.3	0.0	11128.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.6	2.1
10°-20°	502.4	4.5
20°-30°	699.4	6.3
30°-40°	991.1	8.9
40°-50°	1562.0	14.0
50°-60°	2534.5	22.8
60°-70°	2830.5	25.4
70°-80°	1593.9	14.3
80°-90°	185.0	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°	11128.3	100.0
0°-180°	11128.3	100.0

Coefficient of Utilization



REPORT NUMBER: P484163

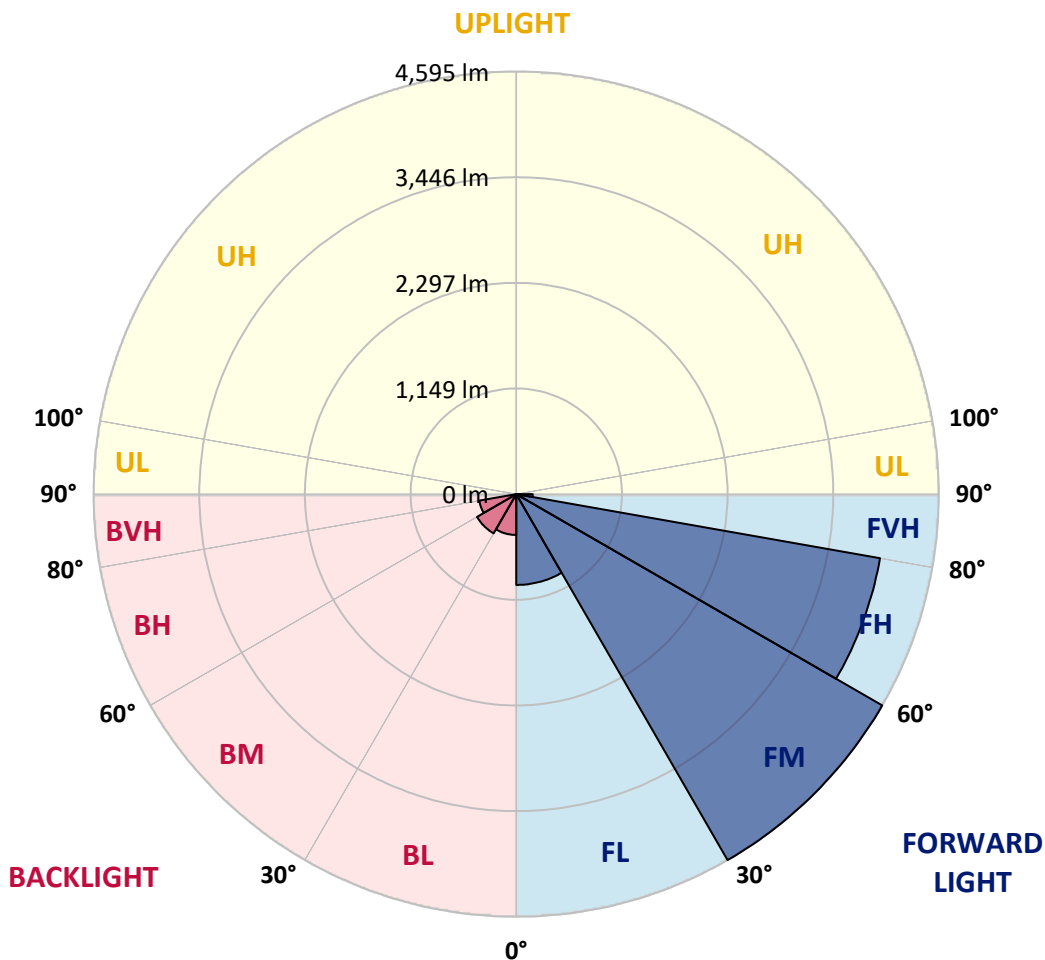
CATALOG NUMBER: IFLD-S-SA3B-830-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	987.5	8.9			
FM (30°-60°)	4595.0	41.3			
FH (60°-80°)	4016.0	36.1			G2/5000
FVH (80°-90°)	179.9	1.6			G2/225
BL (0°-30°)	443.8	4.0	B1/500		
BM (30°-60°)	492.6	4.4	B1/1000		
BH (60°-80°)	408.4	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: P484163

CATALOG NUMBER: IFLD-S-SA3B-830-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2805.7	2805.7	2805.7	2805.7	2805.7	2805.7	2805.7	2805.7	2805.7	2805.7	2805.7
2.5°	2702.1	2723.1	2729.2	2750.2	2760.7	2805.7	2831.2	2846.2	2838.7	2855.2	2856.8
5°	2510.0	2498.0	2529.5	2552.0	2600.0	2678.1	2757.7	2819.2	2847.7	2874.8	2870.3
7.5°	2304.3	2298.3	2329.8	2380.9	2424.4	2519.0	2646.6	2798.2	2792.2	2858.3	2877.8
10°	2163.2	2169.2	2179.7	2230.8	2295.3	2391.4	2550.5	2691.6	2723.1	2862.8	2901.8
12.5°	2034.1	2044.6	2064.1	2116.7	2191.7	2290.8	2445.4	2610.6	2658.6	2837.2	2915.3
15°	1992.1	1968.1	2007.1	2046.1	2124.2	2212.7	2343.3	2549.0	2570.0	2807.2	2937.8
17.5°	1957.5	1942.5	1960.5	1992.1	2074.6	2146.7	2269.8	2483.0	2522.0	2795.2	2934.8
20°	1968.1	1954.5	1962.0	1986.1	2023.6	2091.1	2205.2	2419.9	2461.9	2739.7	2930.3
22.5°	1998.1	2008.6	1995.1	2001.1	2013.1	2047.6	2170.7	2374.9	2410.9	2729.2	2955.8
25°	2133.2	2115.2	2097.2	2089.6	2019.1	2034.1	2160.2	2371.9	2397.4	2691.6	2934.8
27.5°	2274.3	2259.3	2251.8	2208.2	2112.2	2067.1	2161.7	2329.8	2364.4	2676.6	2909.3
30°	2445.4	2464.9	2434.9	2382.4	2248.8	2137.7	2178.2	2308.8	2356.9	2619.6	2892.8
32.5°	2625.6	2636.1	2651.1	2612.1	2439.4	2244.3	2227.8	2328.3	2331.3	2619.6	2855.2
35°	2829.7	2814.7	2853.7	2856.8	2705.1	2433.4	2322.3	2341.8	2373.4	2607.6	2841.7
37.5°	3005.4	3030.9	3075.9	3148.0	2991.9	2700.6	2469.4	2404.9	2418.4	2663.1	2852.2
40°	3197.5	3223.0	3325.1	3397.2	3308.6	3000.9	2693.1	2552.0	2562.5	2745.7	2906.3
42.5°	3409.2	3458.7	3580.3	3706.4	3682.4	3382.2	2981.3	2768.2	2763.7	2951.3	3017.4
45°	3695.9	3762.0	3894.1	4039.7	4060.7	3819.0	3365.7	3090.9	3105.9	3220.0	3247.1
47.5°	4095.2	4092.2	4221.3	4383.5	4505.0	4272.4	3825.0	3524.8	3523.3	3644.9	3587.8
50°	4481.0	4482.5	4517.1	4704.7	5020.0	4901.4	4394.0	4101.2	4084.7	4144.8	4053.2
52.5°	4659.7	4638.7	4613.1	4839.8	5416.3	5694.0	5114.5	4754.2	4740.7	4704.7	4680.7
55°	4472.0	4479.5	4478.0	4713.7	5624.9	6530.1	6039.3	5473.3	5450.8	5338.2	5371.2
57.5°	3870.0	3846.0	3898.6	4266.4	5386.2	7100.6	7361.8	6380.0	6321.5	5947.7	5872.6
60°	2880.8	2888.3	2931.8	3365.7	4793.3	7220.7	8627.3	7444.4	7192.2	6377.0	6273.4
62.5°	2011.6	1996.6	2013.1	2256.3	3427.2	6740.3	9483.0	8738.4	8495.2	6864.9	6804.9
65°	1439.6	1420.1	1486.2	1634.8	2058.1	5153.6	9604.6	10461.7	10244.1	7644.0	7499.9
67.5°	1035.8	1032.8	1109.4	1379.6	1462.2	2967.8	8703.9	12023.0	11890.9	8568.8	7923.2
69°	857.2	858.7	932.2	1235.5	1396.1	2026.6	7489.4	12291.7	12267.7	9046.1	7843.7
70°	747.6	753.6	839.2	1149.9	1369.1	1666.3	6456.6	12027.5	12003.5	9139.2	7581.0
72.5°	460.9	465.4	578.0	921.7	1301.5	1360.1	3861.0	9840.3	9922.8	8712.9	6531.6
75°	220.7	222.2	303.2	666.5	1255.0	1289.5	2068.6	7261.2	7435.4	7034.5	5104.0
77.5°	117.1	117.1	145.6	354.3	1016.3	1213.0	1228.0	5122.0	5266.1	4448.0	2901.8
80°	58.5	60.0	88.6	184.6	630.5	1188.9	959.3	3054.9	3133.0	1814.9	903.7
82.5°	22.5	24.0	42.0	111.1	327.3	1004.3	842.2	1502.7	1483.2	424.8	220.7
85°	3.0	3.0	15.0	66.1	139.6	442.8	695.0	627.5	606.5	93.1	106.6
87.5°	0.0	0.0	3.0	19.5	42.0	129.1	268.7	172.6	192.2	25.5	52.5
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: P484163

CATALOG NUMBER: IFLD-S-SA3B-830-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2805.7	2805.7	2805.7	2805.7	2805.7	2805.7	2805.7	2805.7	2805.7	2805.7	2805.7
2.5°	2849.2	2817.7	2769.7	2723.1	2673.6	2613.6	2547.5	2523.5	2481.5	2478.5	2502.5
5°	2846.2	2795.2	2711.1	2612.1	2470.9	2364.4	2248.8	2164.7	2100.2	2058.1	2068.6
7.5°	2861.3	2799.7	2654.1	2440.9	2259.3	2047.6	1869.0	1745.9	1633.3	1577.7	1571.7
10°	2837.2	2754.7	2541.5	2242.8	1975.6	1679.8	1418.6	1253.5	1085.4	1023.8	1026.8
12.5°	2850.7	2735.2	2419.9	2038.6	1670.8	1286.5	974.3	749.1	591.5	540.4	534.4
15°	2859.8	2693.1	2302.8	1793.9	1333.1	876.7	564.4	424.8	375.3	366.3	364.8
17.5°	2825.2	2642.1	2137.7	1552.2	987.8	532.9	375.3	346.8	337.8	331.8	328.8
20°	2823.7	2612.1	1995.1	1304.5	659.0	363.3	324.3	313.7	300.2	295.7	295.7
22.5°	2798.2	2549.0	1823.9	1032.8	420.3	312.2	291.2	274.7	259.7	253.7	252.2
25°	2790.7	2475.5	1663.3	776.1	319.8	279.2	258.2	234.2	216.2	207.2	202.7
27.5°	2769.7	2412.4	1501.2	546.4	279.2	249.2	222.2	196.7	175.6	162.1	160.6
30°	2694.6	2346.3	1321.0	378.3	253.7	220.7	190.7	160.6	139.6	130.6	127.6
32.5°	2663.1	2284.8	1124.4	291.2	231.2	195.2	160.6	133.6	117.1	108.1	106.6
35°	2625.6	2194.7	933.7	253.7	210.2	169.6	135.1	112.6	99.1	91.6	91.6
37.5°	2630.1	2122.7	755.1	229.7	187.6	145.6	115.6	96.1	84.1	76.6	76.6
40°	2616.6	2065.6	587.0	208.7	166.6	124.6	97.6	81.1	70.6	63.0	61.5
42.5°	2678.1	2050.6	442.8	190.7	145.6	106.6	84.1	69.1	58.5	49.5	49.5
45°	2781.7	2074.6	345.3	174.1	124.6	91.6	72.1	57.0	46.5	40.5	39.0
47.5°	3057.9	2169.2	270.2	160.6	106.6	79.6	60.0	46.5	37.5	31.5	30.0
50°	3458.7	2380.9	229.7	141.1	90.1	67.6	49.5	36.0	30.0	24.0	22.5
52.5°	4029.2	2736.7	208.7	124.6	75.1	55.5	39.0	28.5	22.5	18.0	16.5
55°	4650.7	3181.0	189.1	105.1	63.0	45.0	31.5	22.5	16.5	12.0	10.5
57.5°	5135.5	3565.3	172.6	87.1	51.0	36.0	24.0	16.5	12.0	7.5	6.0
60°	5665.5	3835.5	151.6	69.1	42.0	27.0	18.0	12.0	9.0	4.5	4.5
62.5°	6211.9	4152.3	124.6	54.0	33.0	21.0	13.5	9.0	6.0	1.5	1.5
65°	6971.5	4400.0	96.1	42.0	25.5	15.0	10.5	7.5	3.0	0.0	0.0
67.5°	7186.2	4278.4	70.6	33.0	18.0	10.5	7.5	4.5	1.5	0.0	0.0
69°	6971.5	3853.5	61.5	28.5	15.0	9.0	6.0	3.0	1.5	0.0	0.0
70°	6579.7	3523.3	54.0	24.0	13.5	9.0	4.5	3.0	1.5	0.0	0.0
72.5°	5503.3	2702.1	42.0	18.0	10.5	7.5	4.5	3.0	0.0	0.0	0.0
75°	4036.7	1669.3	31.5	13.5	9.0	6.0	4.5	3.0	0.0	0.0	0.0
77.5°	2163.2	609.5	22.5	9.0	6.0	4.5	4.5	3.0	0.0	0.0	0.0
80°	593.0	180.1	16.5	6.0	4.5	3.0	3.0	1.5	0.0	0.0	0.0
82.5°	162.1	46.5	10.5	6.0	4.5	3.0	1.5	0.0	0.0	0.0	0.0
85°	87.1	18.0	6.0	4.5	3.0	1.5	0.0	0.0	0.0	0.0	0.0
87.5°	45.0	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)