

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: P484160

Luminaire Tested: **IFLD-S-SA2D-830-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484160
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-830-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

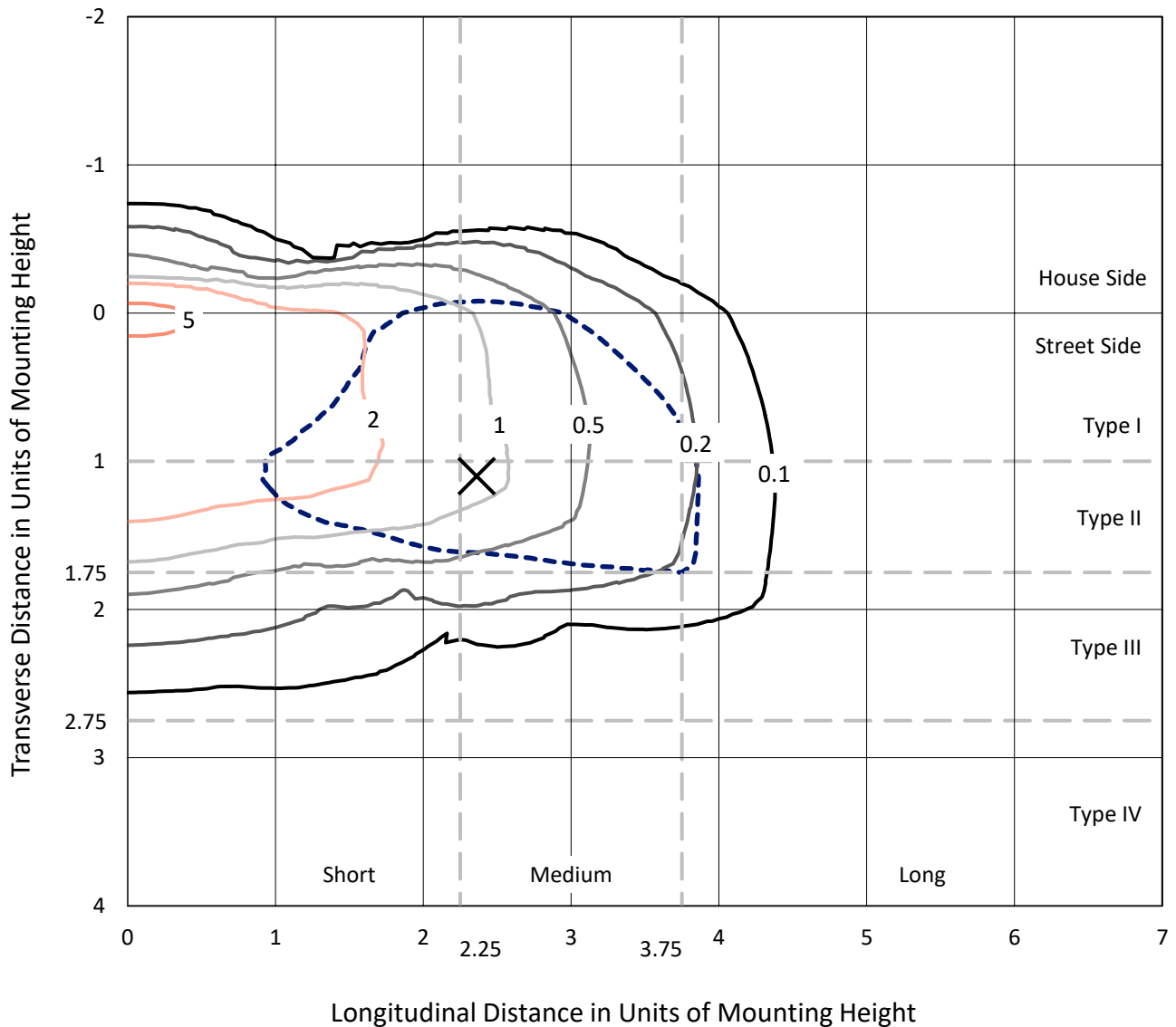
Lumens per Lamp: N/A
Luminaire Lumens: 10228.2 lumens
Efficiency: N/A
Efficacy: 82.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 123.9
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: P484160
 CATALOG NUMBER: IFLD-S-SA2D-830-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

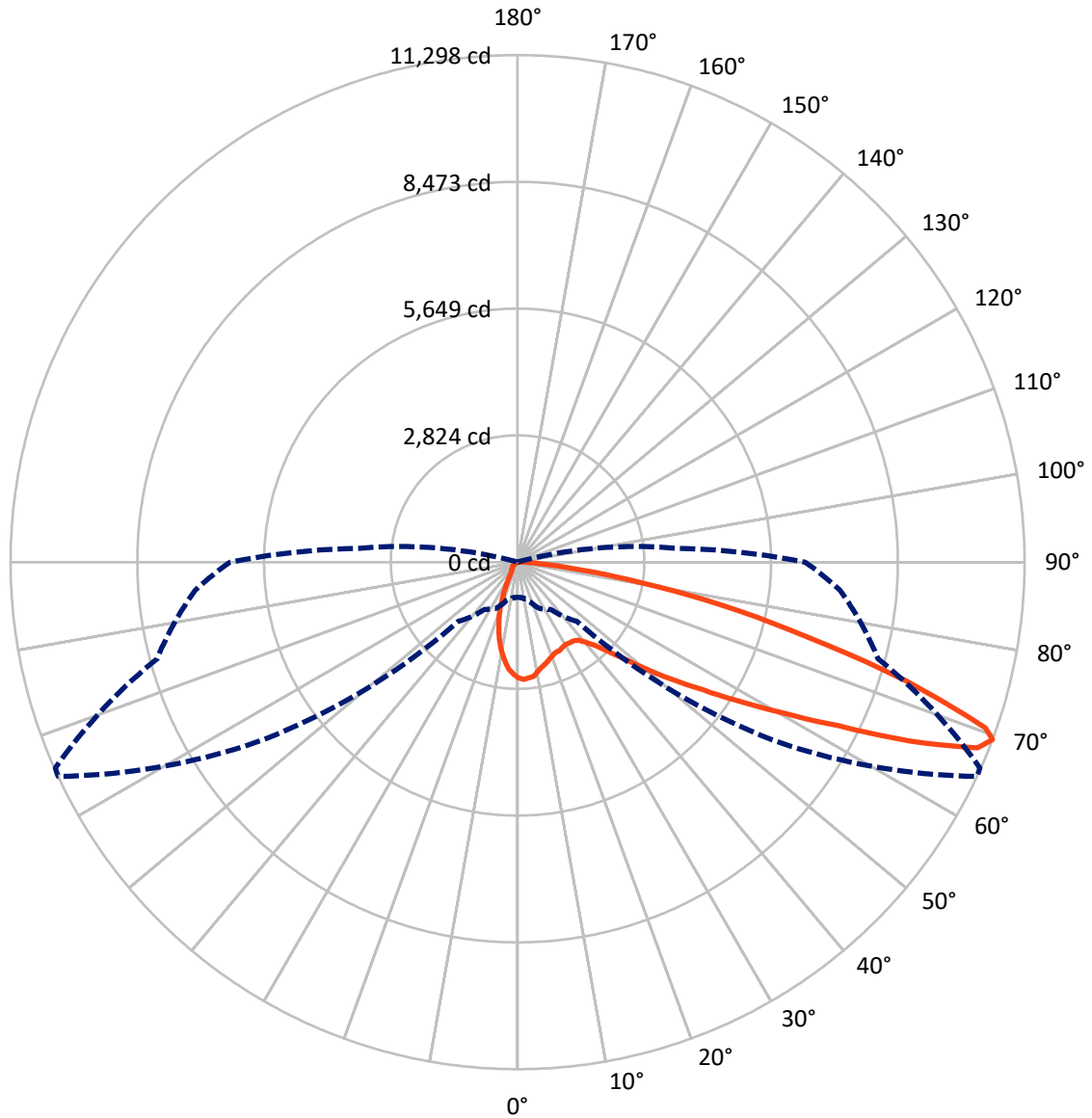
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.4 fc
 Type II - Medium - N/A

REPORT NUMBER: P484160
CATALOG NUMBER: IFLD-S-SA2D-830-U-SL2-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P484160
 CATALOG NUMBER: IFLD-S-SA2D-830-U-SL2-HSS

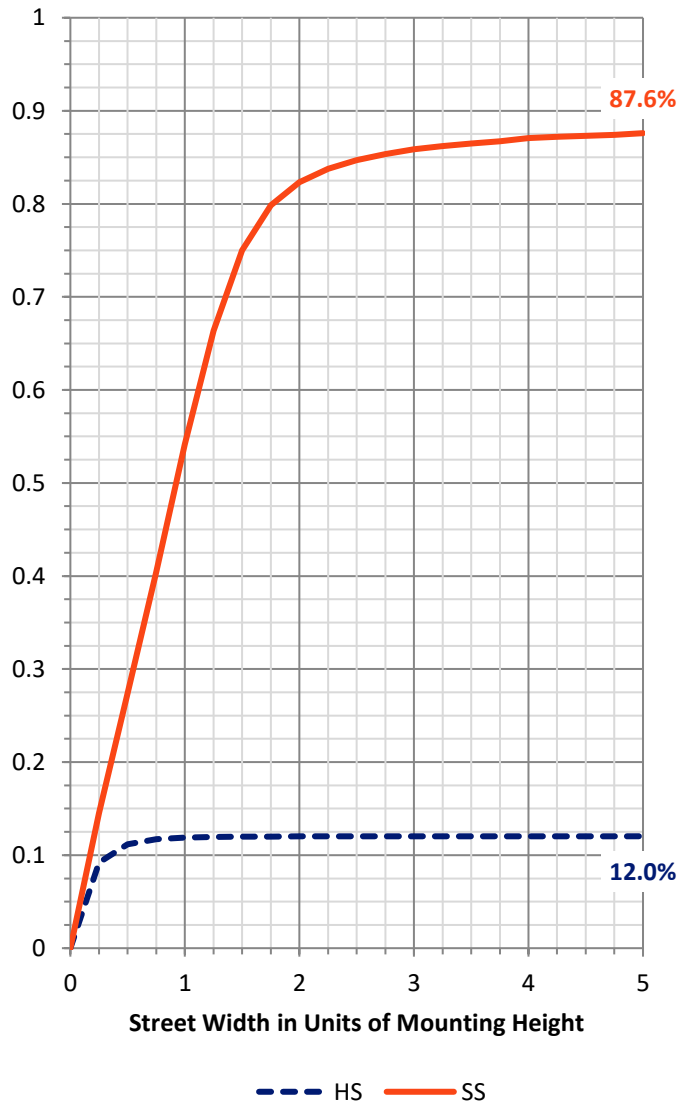
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1240.8	0.0	1240.8
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	8987.5	0.0	8987.5
	% Fixture	87.9	0.0	87.9
Total	Lumens	10228.2	0.0	10228.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.0	2.1
10°-20°	461.7	4.5
20°-30°	642.8	6.3
30°-40°	910.9	8.9
40°-50°	1435.6	14.0
50°-60°	2329.5	22.8
60°-70°	2601.6	25.4
70°-80°	1465.0	14.3
80°-90°	170.0	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°	10228.2	100.0
0°-180°	10228.2	100.0

Coefficient of Utilization



REPORT NUMBER: P484160

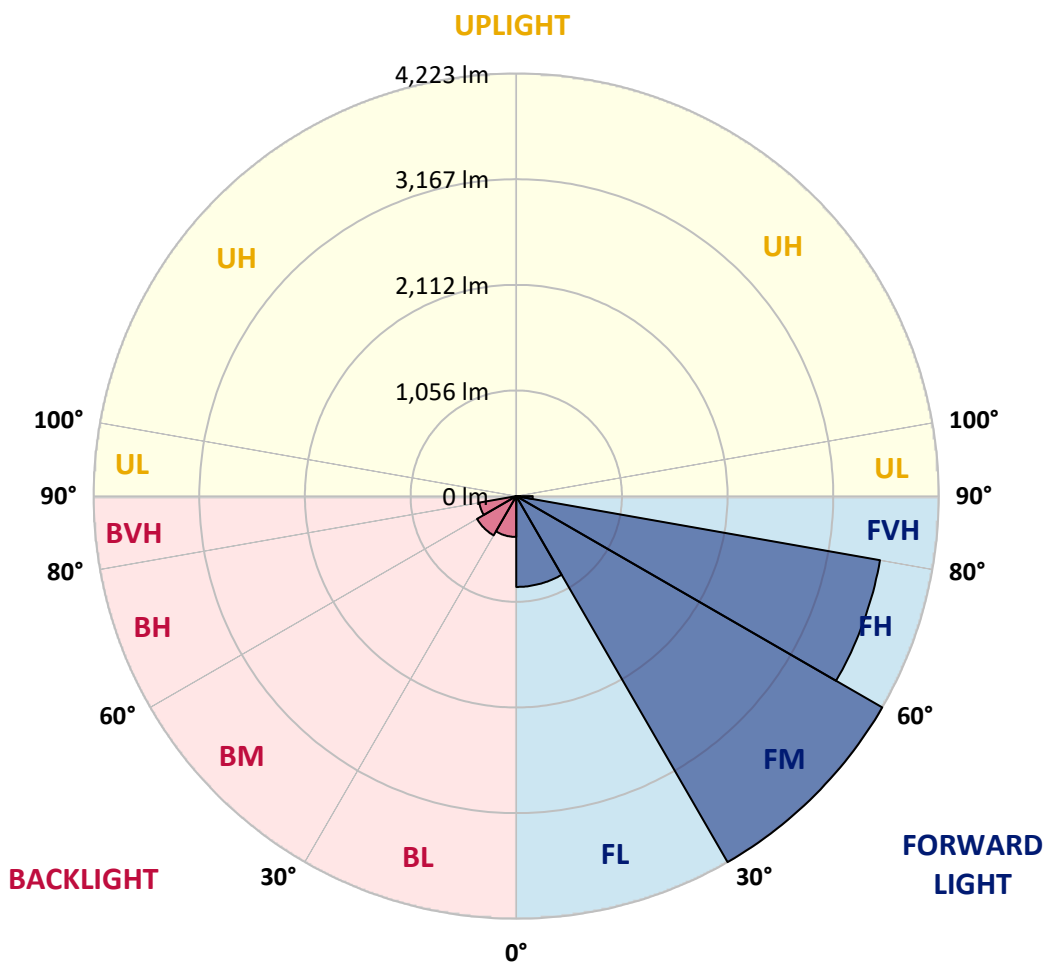
CATALOG NUMBER: IFLD-S-SA2D-830-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	907.7	8.9			
FM (30°-60°)	4223.3	41.3			
FH (60°-80°)	3691.2	36.1			G2/5000
FVH (80°-90°)	165.3	1.6			G2/225
BL (0°-30°)	407.9	4.0	B1/500		
BM (30°-60°)	452.7	4.4	B1/1000		
BH (60°-80°)	375.4	3.7	B1/500		G1/500
BVH (80°-90°)	4.7	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: P484160

CATALOG NUMBER: IFLD-S-SA2D-830-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2578.8	2578.8	2578.8	2578.8	2578.8	2578.8	2578.8	2578.8	2578.8	2578.8	2578.8
2.5°	2483.6	2502.9	2508.4	2527.7	2537.4	2578.8	2602.2	2616.0	2609.1	2624.3	2625.7
5°	2307.0	2295.9	2324.9	2345.6	2389.7	2461.5	2534.6	2591.2	2617.4	2642.2	2638.1
7.5°	2117.9	2112.4	2141.4	2188.3	2228.3	2315.2	2432.5	2571.9	2566.4	2627.1	2645.0
10°	1988.2	1993.8	2003.4	2050.3	2109.7	2198.0	2344.2	2473.9	2502.9	2631.2	2667.1
12.5°	1869.6	1879.2	1897.2	1945.5	2014.4	2105.5	2247.6	2399.4	2443.6	2607.7	2679.5
15°	1830.9	1808.9	1844.7	1880.6	1952.4	2033.8	2153.8	2342.8	2362.1	2580.1	2700.2
17.5°	1799.2	1785.4	1802.0	1830.9	1906.8	1973.1	2086.2	2282.1	2318.0	2569.1	2697.4
20°	1808.9	1796.4	1803.3	1825.4	1859.9	1922.0	2026.9	2224.2	2262.8	2518.1	2693.3
22.5°	1836.5	1846.1	1833.7	1839.2	1850.3	1882.0	1995.1	2182.8	2215.9	2508.4	2716.7
25°	1960.6	1944.1	1927.5	1920.6	1855.8	1869.6	1985.5	2180.0	2203.5	2473.9	2697.4
27.5°	2090.3	2076.5	2069.6	2029.6	1941.3	1899.9	1986.9	2141.4	2173.1	2460.1	2674.0
30°	2247.6	2265.6	2238.0	2189.7	2066.9	1964.8	2002.0	2122.1	2166.2	2407.7	2658.8
32.5°	2413.2	2422.9	2436.7	2400.8	2242.1	2062.7	2047.6	2140.0	2142.8	2407.7	2624.3
35°	2600.8	2587.0	2622.9	2625.7	2486.3	2236.6	2134.5	2152.4	2181.4	2396.6	2611.9
37.5°	2762.3	2785.7	2827.1	2893.4	2749.9	2482.2	2269.7	2210.4	2222.8	2447.7	2621.5
40°	2938.9	2962.3	3056.2	3122.4	3041.0	2758.1	2475.3	2345.6	2355.2	2523.6	2671.2
42.5°	3133.4	3179.0	3290.7	3406.6	3384.5	3108.6	2740.2	2544.3	2540.1	2712.6	2773.3
45°	3397.0	3457.7	3579.1	3712.9	3732.2	3510.1	3093.4	2840.9	2854.7	2959.6	2984.4
47.5°	3764.0	3761.2	3879.9	4028.9	4140.7	3926.8	3515.6	3239.7	3238.3	3350.1	3297.6
50°	4118.6	4120.0	4151.7	4324.2	4613.9	4504.9	4038.6	3769.5	3754.3	3809.5	3725.3
52.5°	4282.8	4263.5	4240.0	4448.3	4978.2	5233.4	4700.8	4369.7	4357.3	4324.2	4302.1
55°	4110.3	4117.2	4115.8	4332.4	5170.0	6001.9	5550.8	5030.6	5009.9	4906.4	4936.8
57.5°	3557.0	3534.9	3583.2	3921.3	4950.6	6526.3	6766.3	5864.0	5810.2	5466.6	5397.6
60°	2647.8	2654.7	2694.7	3093.4	4405.6	6636.6	7929.5	6842.2	6610.4	5861.2	5766.0
62.5°	1848.9	1835.1	1850.3	2073.8	3150.0	6195.1	8715.9	8031.6	7808.1	6309.6	6254.4
65°	1323.2	1305.3	1366.0	1502.6	1891.6	4736.7	8827.7	9615.5	9415.5	7025.7	6893.3
67.5°	952.0	949.3	1019.6	1268.0	1343.9	2727.8	7999.8	11050.5	10929.1	7875.7	7282.4
69°	787.8	789.2	856.8	1135.5	1283.2	1862.7	6883.6	11297.5	11275.4	8314.4	7209.2
70°	687.1	692.6	771.3	1056.9	1258.3	1531.5	5934.3	11054.6	11032.5	8400.0	6967.8
72.5°	423.6	427.7	531.2	847.2	1196.3	1250.1	3548.7	9044.3	9120.2	8008.1	6003.3
75°	202.8	204.2	278.7	612.6	1153.5	1185.2	1901.3	6673.9	6833.9	6465.5	4691.2
77.5°	107.6	107.6	133.8	325.6	934.1	1114.8	1128.6	4707.7	4840.2	4088.2	2667.1
80°	53.8	55.2	81.4	169.7	579.5	1092.8	881.7	2807.8	2879.6	1668.1	830.6
82.5°	20.7	22.1	38.6	102.1	300.8	923.1	774.0	1381.1	1363.2	390.5	202.8
85°	2.8	2.8	13.8	60.7	128.3	407.0	638.8	576.7	557.4	85.5	98.0
87.5°	0.0	0.0	2.8	17.9	38.6	118.7	247.0	158.7	176.6	23.5	48.3
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: P484160

CATALOG NUMBER: IFLD-S-SA2D-830-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2578.8	2578.8	2578.8	2578.8	2578.8	2578.8	2578.8	2578.8	2578.8	2578.8	2578.8
2.5°	2618.8	2589.8	2545.7	2502.9	2457.4	2402.2	2341.5	2319.4	2280.7	2278.0	2300.1
5°	2616.0	2569.1	2491.8	2400.8	2271.1	2173.1	2066.9	1989.6	1930.3	1891.6	1901.3
7.5°	2629.8	2573.2	2439.4	2243.5	2076.5	1882.0	1717.8	1604.7	1501.2	1450.1	1444.6
10°	2607.7	2531.9	2335.9	2061.4	1815.8	1543.9	1303.9	1152.1	997.6	941.0	943.8
12.5°	2620.2	2513.9	2224.2	1873.7	1535.7	1182.5	895.5	688.5	543.6	496.7	491.2
15°	2628.4	2475.3	2116.5	1648.8	1225.2	805.8	518.8	390.5	344.9	336.7	335.3
17.5°	2596.7	2428.4	1964.8	1426.7	907.9	489.8	344.9	318.7	310.4	304.9	302.2
20°	2595.3	2400.8	1833.7	1199.0	605.7	333.9	298.0	288.4	276.0	271.8	271.8
22.5°	2571.9	2342.8	1676.4	949.3	386.3	287.0	267.7	252.5	238.7	233.2	231.8
25°	2565.0	2275.2	1528.8	713.3	293.9	256.6	237.3	215.2	198.7	190.4	186.3
27.5°	2545.7	2217.3	1379.8	502.2	256.6	229.0	204.2	180.7	161.4	149.0	147.6
30°	2476.7	2156.6	1214.2	347.7	233.2	202.8	175.2	147.6	128.3	120.0	117.3
32.5°	2447.7	2100.0	1033.4	267.7	212.5	179.4	147.6	122.8	107.6	99.3	98.0
35°	2413.2	2017.2	858.2	233.2	193.2	155.9	124.2	103.5	91.1	84.2	84.2
37.5°	2417.3	1951.0	694.0	211.1	172.5	133.8	106.2	88.3	77.3	70.4	70.4
40°	2404.9	1898.5	539.5	191.8	153.2	114.5	89.7	74.5	64.8	57.9	56.6
42.5°	2461.5	1884.8	407.0	175.2	133.8	98.0	77.3	63.5	53.8	45.5	45.5
45°	2556.7	1906.8	317.3	160.1	114.5	84.2	66.2	52.4	42.8	37.3	35.9
47.5°	2810.6	1993.8	248.4	147.6	98.0	73.1	55.2	42.8	34.5	29.0	27.6
50°	3179.0	2188.3	211.1	129.7	82.8	62.1	45.5	33.1	27.6	22.1	20.7
52.5°	3703.3	2515.3	191.8	114.5	69.0	51.1	35.9	26.2	20.7	16.6	15.2
55°	4274.5	2923.7	173.8	96.6	57.9	41.4	29.0	20.7	15.2	11.0	9.7
57.5°	4720.2	3276.9	158.7	80.0	46.9	33.1	22.1	15.2	11.0	6.9	5.5
60°	5207.2	3525.3	139.4	63.5	38.6	24.8	16.6	11.0	8.3	4.1	4.1
62.5°	5709.4	3816.4	114.5	49.7	30.4	19.3	12.4	8.3	5.5	1.4	1.4
65°	6407.6	4044.1	88.3	38.6	23.5	13.8	9.7	6.9	2.8	0.0	0.0
67.5°	6604.9	3932.3	64.8	30.4	16.6	9.7	6.9	4.1	1.4	0.0	0.0
69°	6407.6	3541.8	56.6	26.2	13.8	8.3	5.5	2.8	1.4	0.0	0.0
70°	6047.5	3238.3	49.7	22.1	12.4	8.3	4.1	2.8	1.4	0.0	0.0
72.5°	5058.2	2483.6	38.6	16.6	9.7	6.9	4.1	2.8	0.0	0.0	0.0
75°	3710.2	1534.3	29.0	12.4	8.3	5.5	4.1	2.8	0.0	0.0	0.0
77.5°	1988.2	560.2	20.7	8.3	5.5	4.1	4.1	2.8	0.0	0.0	0.0
80°	545.0	165.6	15.2	5.5	4.1	2.8	2.8	1.4	0.0	0.0	0.0
82.5°	149.0	42.8	9.7	5.5	4.1	2.8	1.4	0.0	0.0	0.0	0.0
85°	80.0	16.6	5.5	4.1	2.8	1.4	0.0	0.0	0.0	0.0	0.0
87.5°	41.4	5.5	4.1	2.8	2.8	1.4	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)