

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: P480221

Luminaire Tested: **IFLD-S-SA2D-827-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480221
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-827-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (32) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

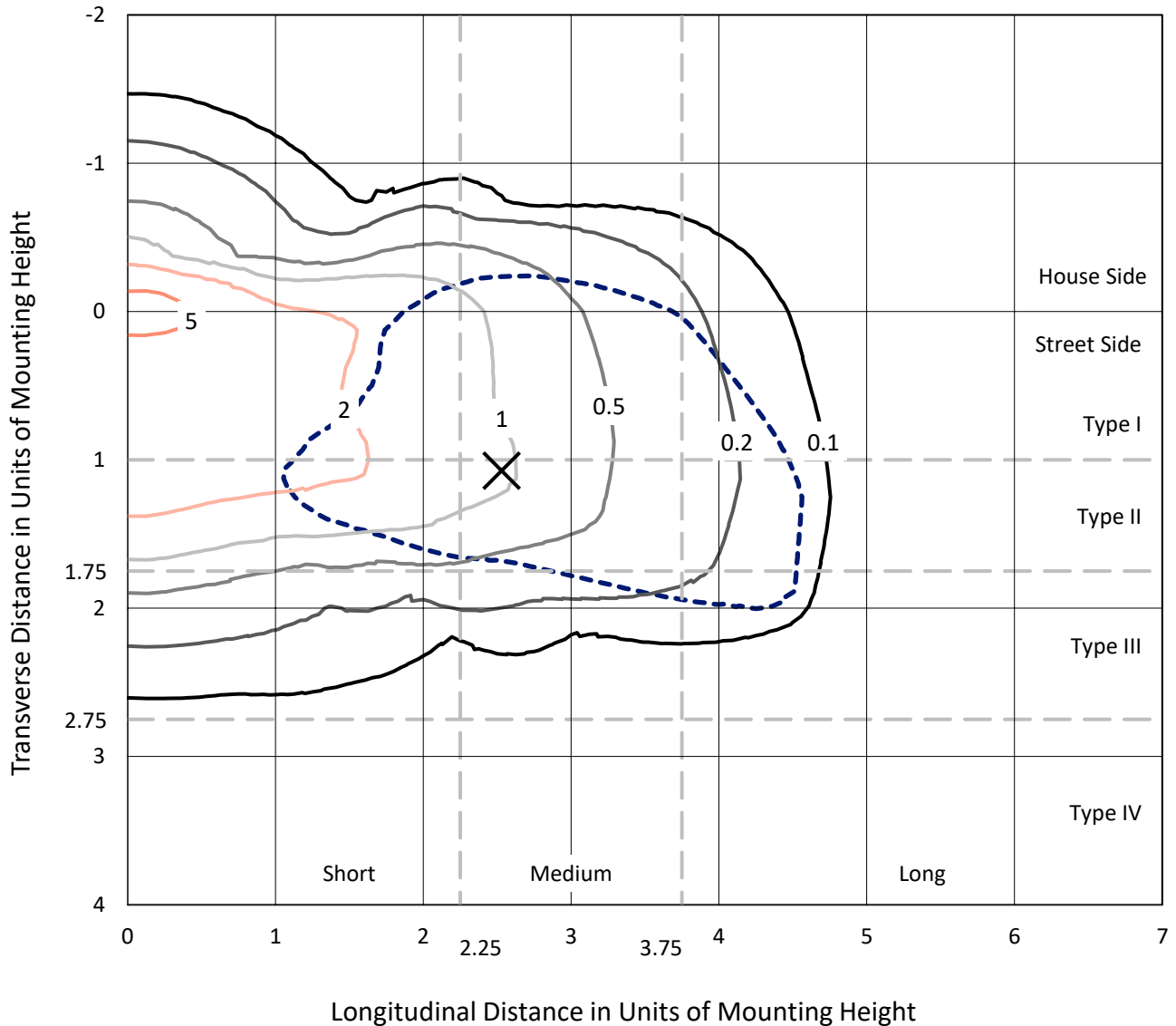
Lumens per Lamp: N/A
Luminaire Lumens: 11462.8 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

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

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Iso-Footcandle Lines of Horizontal Illumination

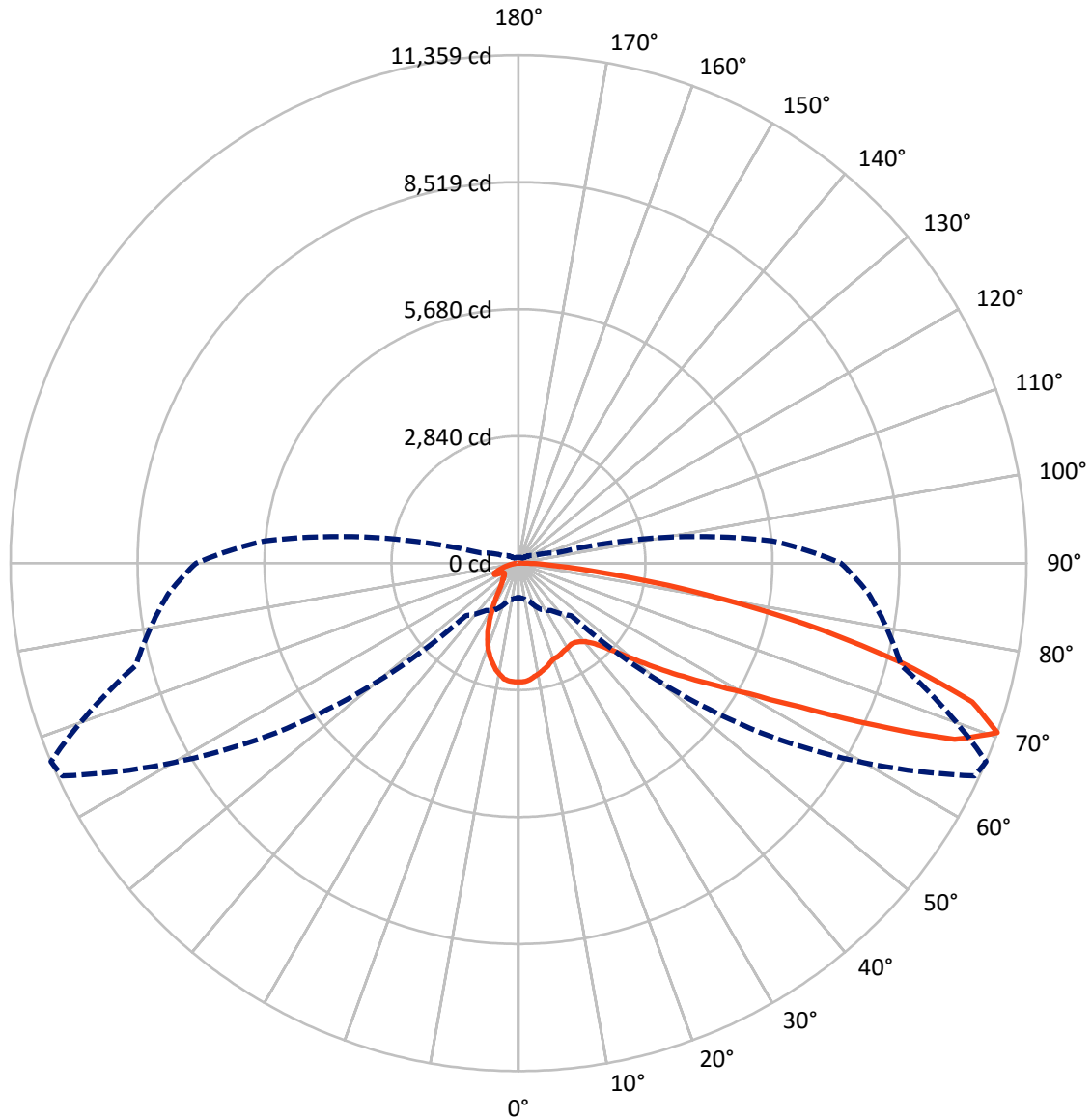
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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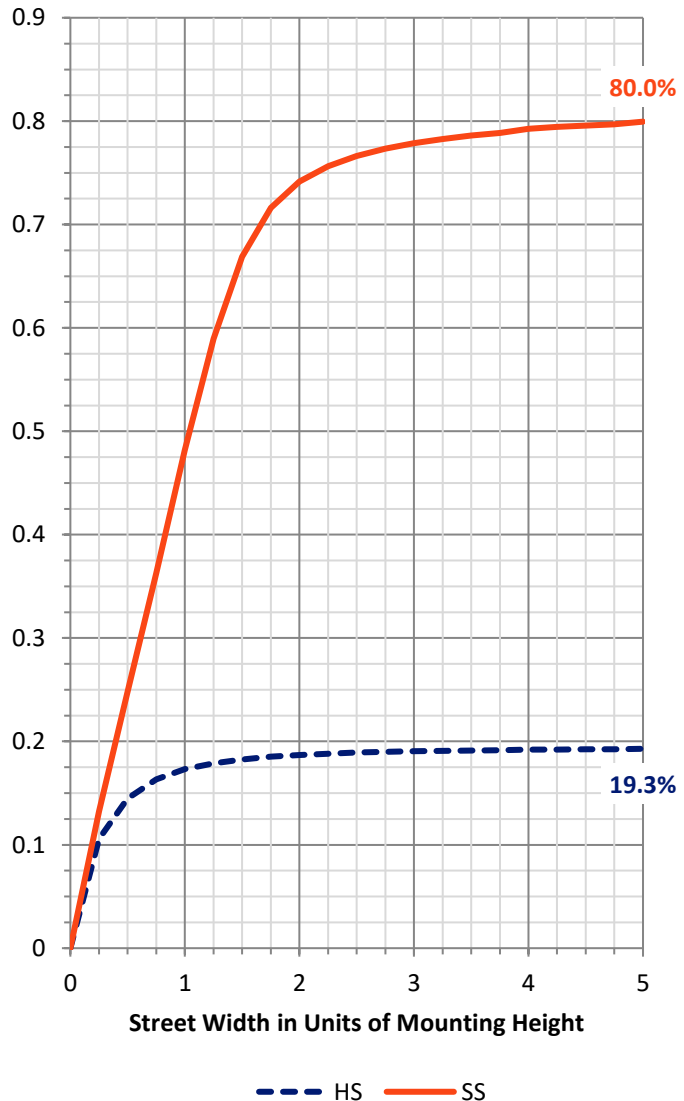
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2232.5	0.0	2232.5
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	9230.3	0.0	9230.3
	% Fixture	80.5	0.0	80.5
Total	Lumens	11462.8	0.0	11462.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.5	2.0
10°-20°	554.5	4.8
20°-30°	748.8	6.5
30°-40°	1002.0	8.7
40°-50°	1473.4	12.9
50°-60°	2296.7	20.0
60°-70°	2829.1	24.7
70°-80°	1999.0	17.4
80°-90°	327.7	2.9
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°	11462.8	100.0
0°-180°	11462.8	100.0

Coefficient of Utilization

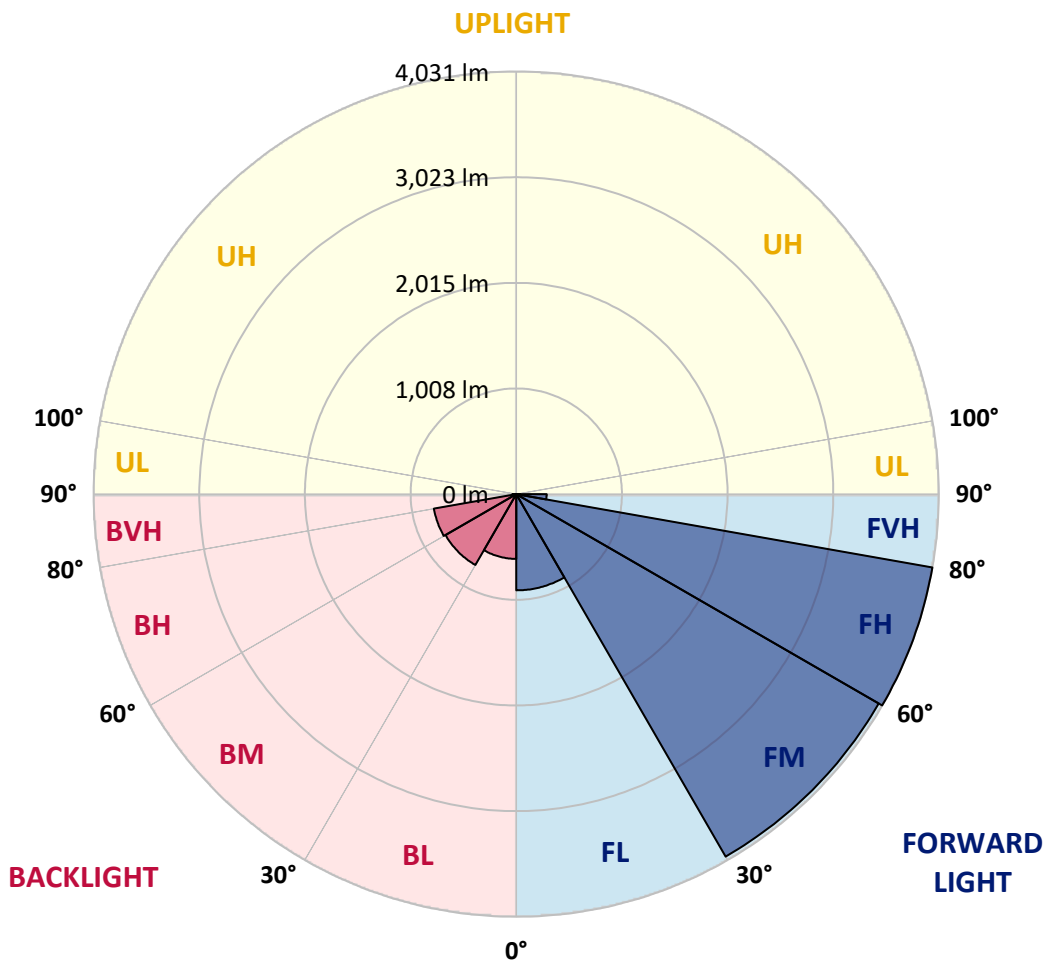


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	917.5	8.0			
FM (30°-60°)	3992.2	34.8			
FH (60°-80°)	4030.7	35.2			G2/5000
FVH (80°-90°)	289.9	2.5			G3/500
BL (0°-30°)	617.4	5.4	B2/1000		
BM (30°-60°)	779.9	6.8	B1/1000		
BH (60°-80°)	797.5	7.0	B2/1000		G2/1000
BVH (80°-90°)	37.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2653.6	2653.6	2653.6	2653.6	2653.6	2653.6	2653.6	2653.6	2653.6	2653.6	2653.6
2.5°	2470.9	2498.8	2508.9	2524.2	2563.5	2592.7	2610.5	2630.8	2654.9	2675.2	2687.9
5°	2298.3	2313.5	2337.6	2354.1	2403.6	2482.3	2535.6	2621.9	2619.3	2651.1	2699.3
7.5°	2130.7	2146.0	2157.4	2190.4	2261.5	2332.5	2430.2	2569.8	2559.7	2633.3	2708.2
10°	2026.7	2015.3	2019.1	2074.9	2130.7	2210.7	2333.8	2475.9	2512.7	2626.9	2733.5
12.5°	1929.0	1916.3	1946.7	1982.3	2050.8	2123.1	2270.3	2398.5	2454.4	2604.1	2745.0
15°	1868.1	1859.2	1897.2	1912.5	1993.7	2080.0	2184.0	2340.1	2401.1	2576.2	2727.2
17.5°	1833.8	1841.4	1855.4	1888.4	1940.4	2014.0	2128.2	2300.8	2327.5	2541.9	2723.4
20°	1840.1	1849.0	1850.3	1864.2	1899.8	1956.9	2073.6	2258.9	2276.7	2535.6	2733.5
22.5°	1890.9	1878.2	1883.3	1874.4	1884.6	1929.0	2031.8	2203.1	2271.6	2482.3	2712.0
25°	1967.0	1949.3	1946.7	1916.3	1897.2	1909.9	2024.1	2189.1	2233.5	2465.8	2710.7
27.5°	2101.6	2074.9	2074.9	2029.2	1951.8	1931.5	2002.6	2166.3	2205.6	2450.6	2681.5
30°	2231.0	2231.0	2232.3	2167.6	2081.3	1981.0	2011.5	2157.4	2182.8	2404.9	2642.2
32.5°	2388.4	2384.6	2378.2	2346.5	2213.2	2063.5	2054.6	2146.0	2158.7	2389.6	2630.8
35°	2541.9	2531.8	2581.3	2553.3	2417.6	2224.7	2099.0	2151.1	2179.0	2366.8	2595.2
37.5°	2657.4	2663.8	2766.5	2784.3	2667.6	2407.4	2224.7	2201.8	2228.5	2399.8	2595.2
40°	2807.2	2832.5	2929.0	2988.6	2917.6	2648.5	2423.9	2286.8	2305.9	2473.4	2651.1
42.5°	3003.9	3025.4	3148.5	3225.9	3205.6	2955.6	2620.6	2464.5	2449.3	2596.5	2734.8
45°	3264.0	3267.8	3392.2	3498.8	3540.7	3276.7	2932.8	2689.1	2676.4	2808.4	2888.4
47.5°	3573.7	3569.9	3647.3	3761.5	3874.4	3660.0	3291.9	3030.5	2984.8	3111.7	3143.5
50°	3873.2	3856.7	3874.4	4020.4	4237.4	4139.7	3728.5	3448.0	3402.3	3472.1	3526.7
52.5°	4038.1	4058.4	4010.2	4203.1	4623.2	4706.9	4307.2	3946.8	3907.4	3941.7	4036.9
55°	3922.7	3964.5	3932.8	4115.6	4792.0	5398.6	5055.9	4524.2	4473.4	4460.7	4616.8
57.5°	3431.5	3507.7	3514.0	3803.4	4733.6	5934.1	6109.2	5205.7	5129.5	5000.1	5161.3
60°	2634.6	2710.7	2769.1	3111.7	4233.6	6253.9	7330.1	6175.2	5924.0	5588.9	5685.4
62.5°	1846.5	1898.5	1956.9	2167.6	3264.0	6066.1	8385.9	7540.7	7077.5	6209.5	6330.1
65°	1345.2	1385.8	1445.5	1569.8	2005.1	5019.1	8875.8	9162.6	8723.5	6998.9	6983.6
67.5°	1012.7	1038.1	1116.8	1316.0	1389.6	3100.3	8368.2	10875.8	10520.5	7875.8	7509.0
70°	766.5	788.1	861.7	1134.5	1298.2	1662.5	6601.6	11257.8	11359.3	8859.3	7861.8
72.5°	527.9	552.0	634.5	945.4	1236.1	1318.6	4143.5	10227.3	10611.9	9264.1	7483.6
75°	323.6	340.1	388.3	717.0	1227.2	1289.4	2280.5	8380.9	8788.2	8559.8	6547.1
77.5°	228.4	227.2	236.0	420.1	1063.5	1297.0	1406.1	6141.0	6536.9	6308.5	4443.0
80°	166.2	167.5	176.4	251.3	722.1	1318.6	1107.9	4113.0	4231.0	3289.4	1752.6
82.5°	100.3	105.3	126.9	170.1	434.0	1190.4	1024.1	2285.6	2138.4	1055.9	482.2
85°	53.3	53.3	74.9	107.9	231.0	888.3	986.1	1087.6	911.2	327.4	178.9
87.5°	12.7	12.7	21.6	43.1	92.6	425.1	672.6	432.7	346.5	110.4	73.6
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°	2653.6	2653.6	2653.6	2653.6	2653.6	2653.6	2653.6	2653.6	2653.6	2653.6	2653.6
2.5°	2682.8	2667.6	2686.6	2648.5	2618.1	2619.3	2572.4	2569.8	2563.5	2530.5	2541.9
5°	2713.2	2700.6	2679.0	2637.1	2569.8	2502.6	2462.0	2409.9	2388.4	2376.9	2382.0
7.5°	2742.4	2719.6	2657.4	2599.0	2495.0	2368.1	2294.5	2224.7	2135.8	2125.7	2107.9
10°	2750.0	2701.8	2621.9	2497.5	2359.2	2218.3	2050.8	1921.4	1852.8	1799.5	1779.2
12.5°	2738.6	2718.3	2564.8	2404.9	2195.5	1974.7	1779.2	1596.5	1469.6	1403.6	1385.8
15°	2737.4	2701.8	2501.3	2264.0	1996.2	1708.2	1430.2	1210.7	1077.4	1022.9	1022.9
17.5°	2738.6	2653.6	2426.4	2121.9	1761.5	1371.9	1066.0	885.8	812.2	804.6	810.9
20°	2713.2	2618.1	2347.8	1954.3	1467.0	1030.5	774.1	700.5	700.5	710.7	714.5
22.5°	2690.4	2564.8	2223.4	1747.5	1167.5	746.2	629.5	607.9	632.0	649.8	657.4
25°	2658.7	2520.3	2096.5	1533.0	888.3	601.5	547.0	552.0	574.9	606.6	604.1
27.5°	2613.0	2442.9	1945.5	1284.3	661.2	519.0	505.1	507.6	531.7	545.7	543.2
30°	2561.0	2364.3	1805.9	1036.8	524.1	475.9	474.6	481.0	484.8	492.4	491.1
32.5°	2495.0	2260.2	1657.4	805.9	472.1	451.8	446.7	442.9	446.7	445.4	441.6
35°	2448.0	2204.4	1506.4	614.2	442.9	430.2	426.4	420.1	415.0	407.4	406.1
37.5°	2435.3	2148.5	1347.7	501.3	420.1	413.7	401.0	389.6	383.3	379.4	376.9
40°	2427.7	2111.7	1192.9	440.4	401.0	394.7	379.4	364.2	357.9	354.1	355.3
42.5°	2454.4	2091.4	1035.6	409.9	384.5	373.1	356.6	338.8	337.6	335.0	338.8
45°	2548.3	2116.8	889.6	388.3	368.0	349.0	327.4	318.5	317.3	314.7	317.3
47.5°	2761.5	2180.2	765.2	374.4	350.3	333.8	310.9	298.2	297.0	295.7	295.7
50°	3055.9	2375.7	661.2	357.9	338.8	316.0	294.4	280.5	277.9	272.8	272.8
52.5°	3517.8	2704.4	599.0	349.0	318.5	299.5	276.7	261.4	255.1	250.0	250.0
55°	4038.1	3111.7	587.6	333.8	297.0	279.2	258.9	243.7	237.3	231.0	228.4
57.5°	4630.8	3651.1	668.8	323.6	281.7	258.9	236.0	222.1	217.0	210.7	208.1
60°	5182.8	4189.2	921.3	308.4	267.8	239.9	217.0	203.0	196.7	190.4	190.4
62.5°	5821.2	4855.4	1349.0	308.4	255.1	219.5	196.7	186.6	182.7	176.4	175.1
65°	6576.3	5544.5	1661.2	327.4	251.3	201.8	177.7	167.5	163.7	159.9	158.6
67.5°	7151.1	5940.5	1429.0	378.2	267.8	186.6	158.6	152.3	149.7	145.9	143.4
70°	7212.1	5699.3	861.7	408.6	284.3	171.3	142.1	135.8	135.8	132.0	129.4
72.5°	6665.1	5057.2	580.0	364.2	257.6	153.6	125.6	120.6	118.0	115.5	114.2
75°	5577.5	4289.4	458.1	290.6	198.0	126.9	109.1	104.1	100.3	99.0	96.4
77.5°	3746.3	2788.1	338.8	227.2	145.9	102.8	91.4	86.3	82.5	81.2	77.4
80°	1439.1	1062.2	218.3	165.0	102.8	81.2	72.3	67.3	64.7	60.9	58.4
82.5°	423.9	343.9	121.8	101.5	66.0	55.8	52.0	48.2	44.4	40.6	39.3
85°	175.1	157.4	74.9	53.3	40.6	33.0	30.5	26.7	22.8	20.3	17.8
87.5°	81.2	67.3	34.3	20.3	14.0	7.6	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)