

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: P480141

Luminaire Tested: **IFLD-S-SA2B-750-U-SL2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480141  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2B-750-U-SL2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens  
Light Source: (32) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

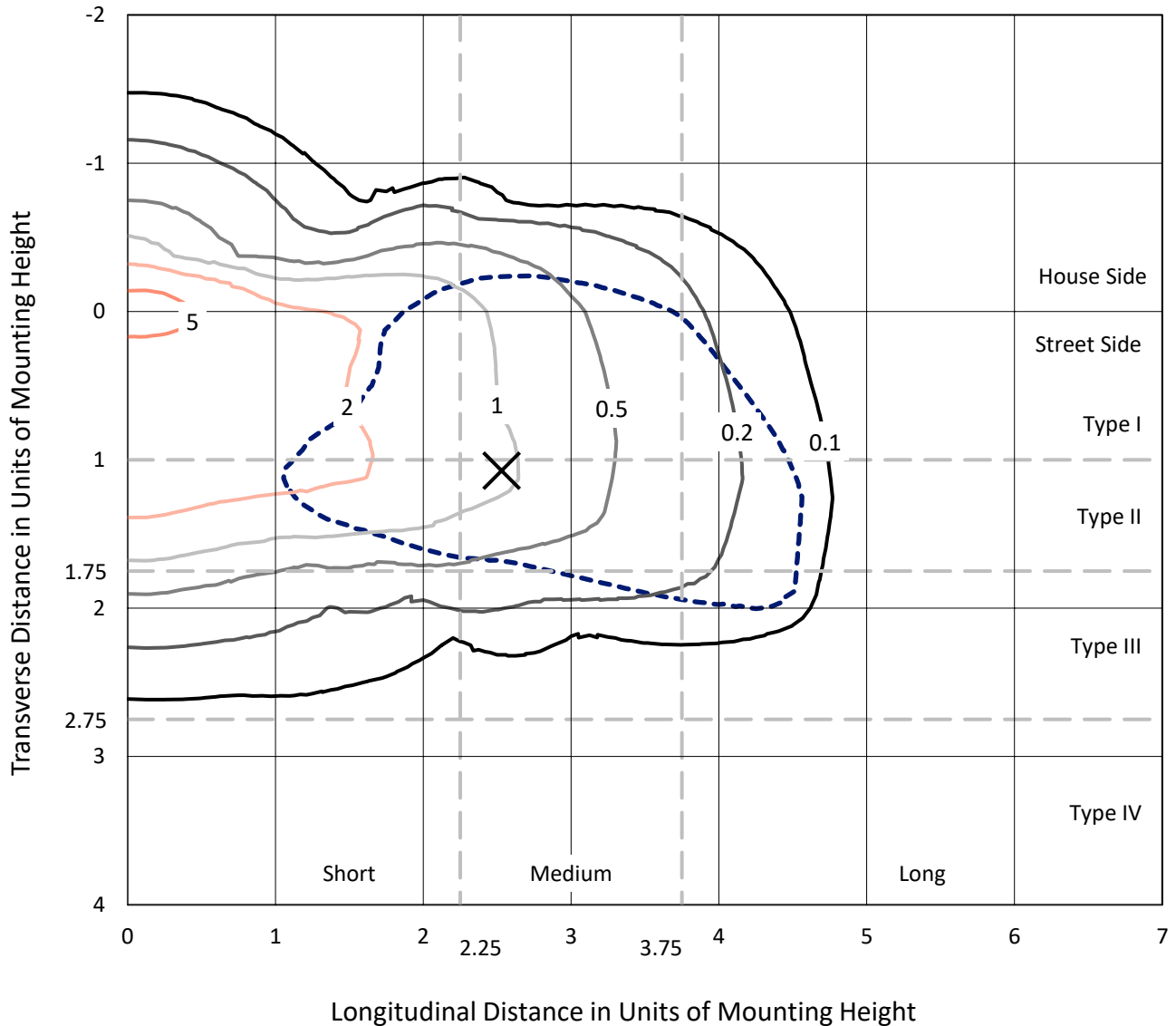
Lumens per Lamp: N/A  
Luminaire Lumens: 11644.9 lumens  
Efficiency: N/A  
Efficacy: 141.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

Input Watts (W): 82.4  
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

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### Iso-Footcandle Lines of Horizontal Illumination

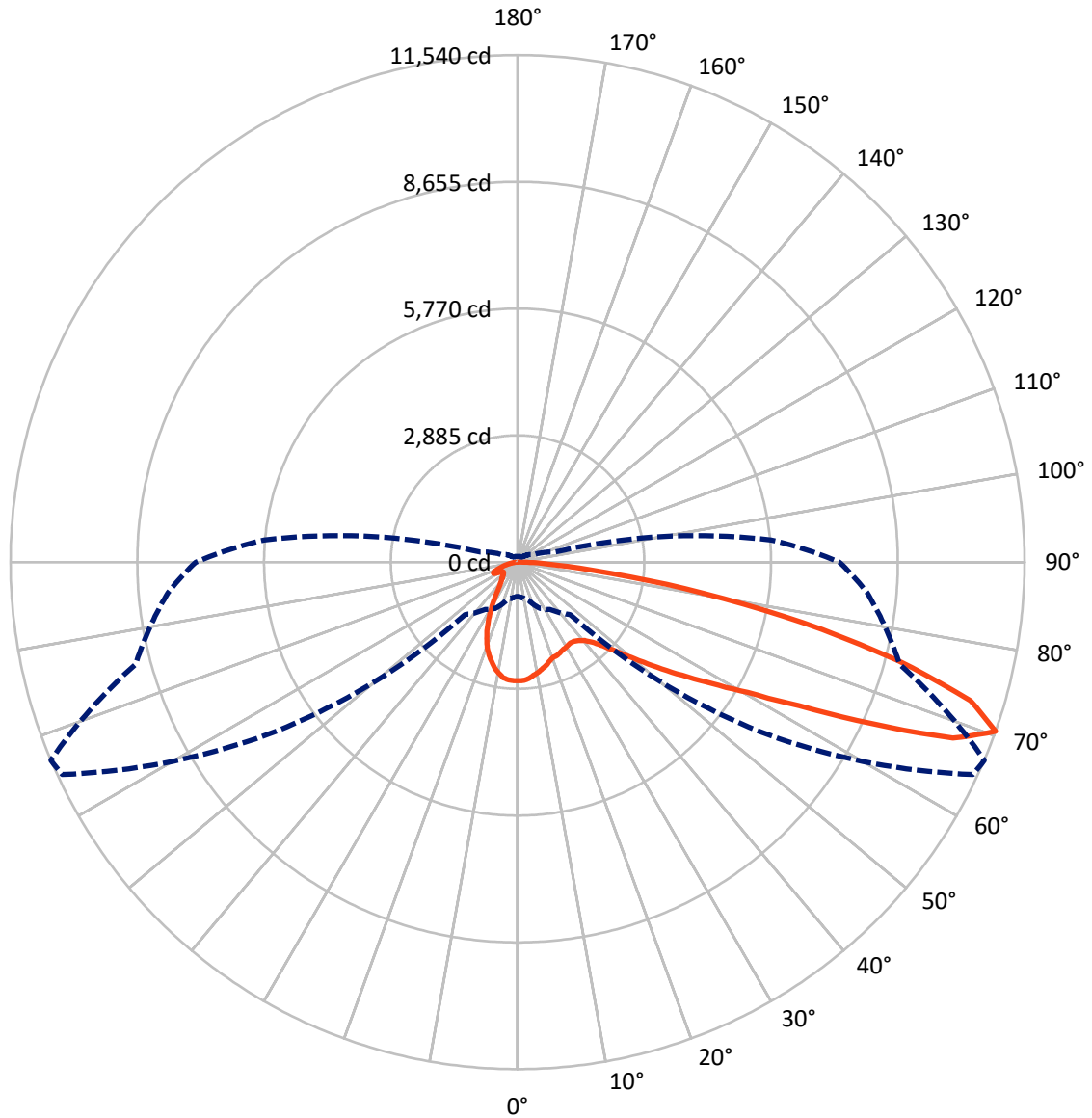
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.8 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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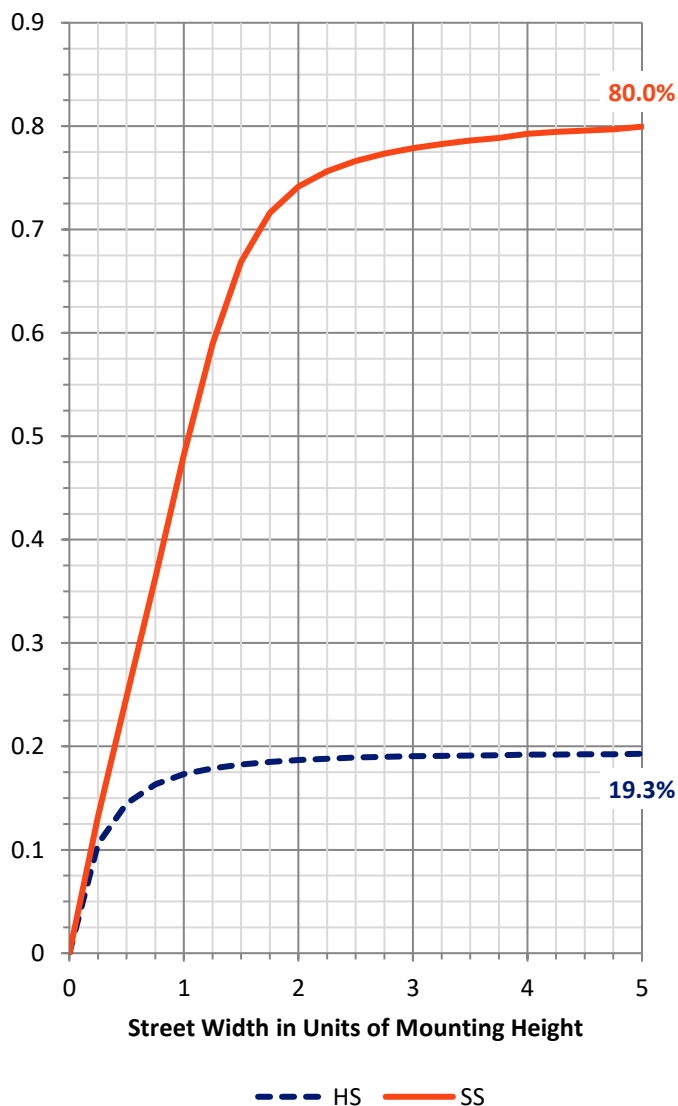
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2267.9	0.0	2267.9
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	9376.9	0.0	9376.9
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	11644.9	0.0	11644.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	235.2	2.0
10°-20°	563.3	4.8
20°-30°	760.7	6.5
30°-40°	1017.9	8.7
40°-50°	1496.8	12.9
50°-60°	2333.2	20.0
60°-70°	2874.1	24.7
70°-80°	2030.8	17.4
80°-90°	332.9	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°	11644.9	100.0
0°-180°	11644.9	100.0

**Coefficient of Utilization**



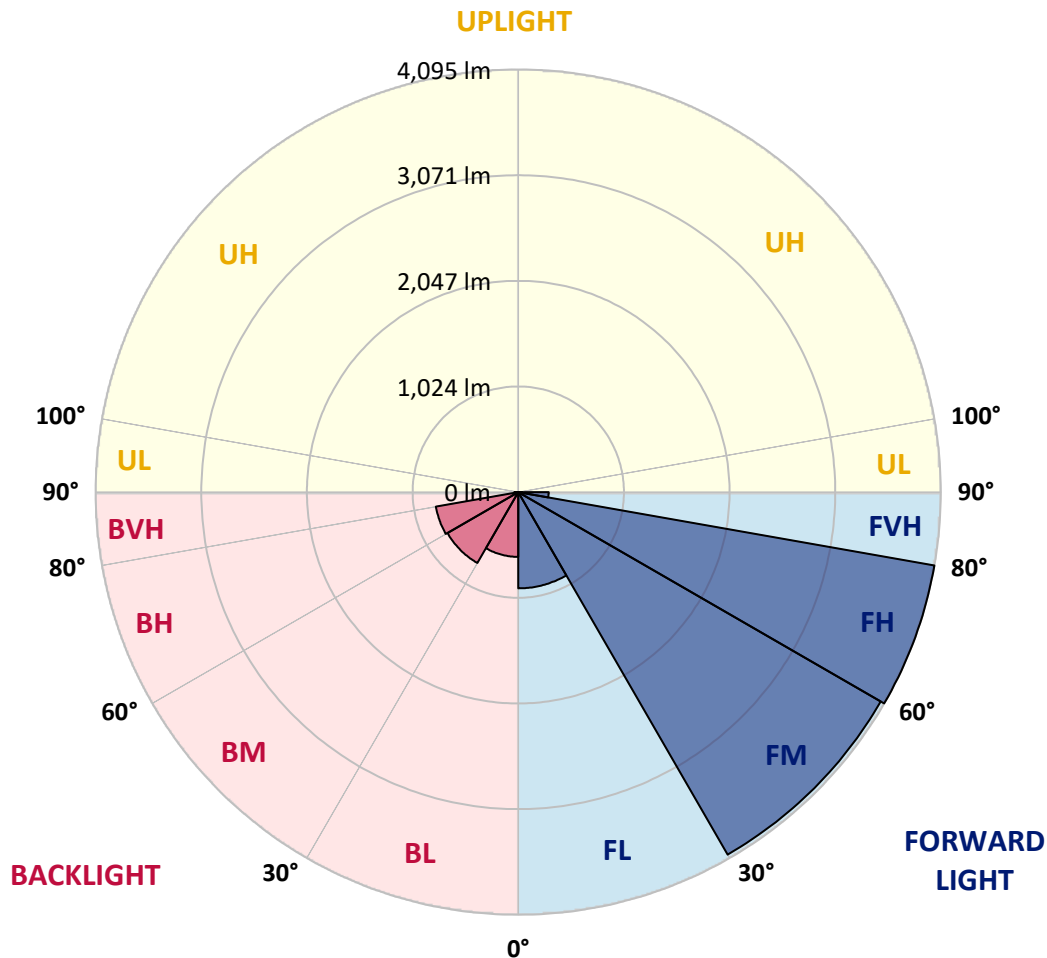
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	932.1	8.0			
FM (30°-60°)	4055.7	34.8			
FH (60°-80°)	4094.7	35.2			G2/5000
FVH (80°-90°)	294.5	2.5			G3/500
BL (0°-30°)	627.2	5.4	B2/1000		
BM (30°-60°)	792.2	6.8	B1/1000		
BH (60°-80°)	810.1	7.0	B2/1000		G2/1000
BVH (80°-90°)	38.4	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°	2695.8	2695.8	2695.8	2695.8	2695.8	2695.8	2695.8	2695.8	2695.8	2695.8	2695.8
2.5°	2510.1	2538.5	2548.8	2564.3	2604.2	2633.9	2651.9	2672.5	2697.0	2717.7	2730.6
5°	2334.8	2350.2	2374.7	2391.5	2441.8	2521.7	2575.9	2663.5	2660.9	2693.2	2742.2
7.5°	2164.6	2180.1	2191.7	2225.2	2297.4	2369.6	2468.8	2610.7	2600.3	2675.1	2751.2
10°	2058.9	2047.3	2051.1	2107.9	2164.6	2245.8	2370.9	2515.3	2552.6	2668.7	2777.0
12.5°	1959.6	1946.7	1977.7	2013.8	2083.4	2156.9	2306.4	2436.6	2493.3	2645.5	2788.6
15°	1897.7	1888.7	1927.4	1942.8	2025.4	2113.0	2218.7	2377.3	2439.2	2617.1	2770.5
17.5°	1862.9	1870.7	1884.8	1918.4	1971.2	2046.0	2162.0	2337.3	2364.4	2582.3	2766.7
20°	1869.4	1878.4	1879.7	1893.9	1930.0	1988.0	2106.6	2294.8	2312.9	2575.9	2777.0
22.5°	1920.9	1908.0	1913.2	1904.2	1914.5	1959.6	2064.0	2238.1	2307.7	2521.7	2755.1
25°	1998.3	1980.2	1977.7	1946.7	1927.4	1940.3	2056.3	2223.9	2269.0	2504.9	2753.8
27.5°	2134.9	2107.9	2107.9	2061.5	1982.8	1962.2	2034.4	2200.7	2240.7	2489.5	2724.1
30°	2266.4	2266.4	2267.7	2202.0	2114.3	2012.5	2043.4	2191.7	2217.5	2443.1	2684.1
32.5°	2426.3	2422.4	2416.0	2383.8	2248.4	2096.3	2087.2	2180.1	2193.0	2427.6	2672.5
35°	2582.3	2572.0	2622.3	2593.9	2456.0	2260.0	2132.4	2185.2	2213.6	2404.4	2636.4
37.5°	2699.6	2706.1	2810.5	2828.5	2709.9	2445.6	2260.0	2236.8	2263.9	2437.9	2636.4
40°	2851.7	2877.5	2975.5	3036.1	2963.9	2690.6	2462.4	2323.2	2342.5	2512.7	2693.2
42.5°	3051.6	3073.5	3198.5	3277.2	3256.6	3002.6	2662.2	2503.7	2488.2	2637.7	2778.3
45°	3315.9	3319.7	3446.1	3554.4	3596.9	3328.8	2979.4	2731.8	2719.0	2853.0	2934.3
47.5°	3630.4	3626.6	3705.2	3821.2	3936.0	3718.1	3344.2	3078.6	3032.2	3161.2	3193.4
50°	3934.7	3917.9	3936.0	4084.2	4304.7	4205.4	3787.7	3502.8	3456.4	3527.3	3582.7
52.5°	4102.3	4122.9	4073.9	4269.9	4696.6	4781.7	4375.6	4009.5	3969.5	4004.3	4101.0
55°	3985.0	4027.5	3995.3	4180.9	4868.1	5484.3	5136.2	4596.1	4544.5	4531.6	4690.2
57.5°	3486.0	3563.4	3569.8	3863.8	4808.8	6028.4	6206.3	5288.4	5211.0	5079.5	5243.2
60°	2676.4	2753.8	2813.1	3161.2	4300.8	6353.3	7446.5	6273.3	6018.1	5677.7	5775.7
62.5°	1875.8	1928.7	1988.0	2202.0	3315.9	6162.5	8519.1	7660.5	7190.0	6308.1	6430.6
65°	1366.6	1407.8	1468.4	1594.8	2037.0	5098.9	9016.8	9308.1	8862.1	7110.0	7094.6
67.5°	1028.8	1054.6	1134.5	1336.9	1411.7	3149.6	8501.1	11048.6	10687.6	8000.9	7628.3
70°	778.7	800.6	875.4	1152.6	1318.9	1688.9	6706.5	11436.6	11539.8	9000.0	7986.7
72.5°	536.3	560.8	644.6	960.5	1255.7	1339.5	4209.3	10389.8	10780.4	9411.3	7602.5
75°	328.8	345.5	394.5	728.4	1246.7	1309.8	2316.7	8514.0	8927.8	8695.8	6651.1
77.5°	232.1	230.8	239.8	426.7	1080.4	1317.6	1428.5	6238.5	6640.8	6408.7	4513.5
80°	168.9	170.2	179.2	255.3	733.6	1339.5	1125.5	4178.4	4298.2	3341.6	1780.4
82.5°	101.8	107.0	128.9	172.8	440.9	1209.3	1040.4	2321.9	2172.3	1072.6	489.9
85°	54.1	54.1	76.1	109.6	234.6	902.5	1001.7	1104.9	925.7	332.6	181.8
87.5°	12.9	12.9	21.9	43.8	94.1	431.9	683.3	439.6	352.0	112.2	74.8
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°	2695.8	2695.8	2695.8	2695.8	2695.8	2695.8	2695.8	2695.8	2695.8	2695.8	2695.8
2.5°	2725.4	2709.9	2729.3	2690.6	2659.7	2660.9	2613.2	2610.7	2604.2	2570.7	2582.3
5°	2756.3	2743.5	2721.5	2679.0	2610.7	2542.3	2501.1	2448.2	2426.3	2414.7	2419.9
7.5°	2786.0	2762.8	2699.6	2640.3	2534.6	2405.7	2330.9	2260.0	2169.8	2159.4	2141.4
10°	2793.7	2744.7	2663.5	2537.2	2396.7	2253.6	2083.4	1951.9	1882.3	1828.1	1807.5
12.5°	2782.1	2761.5	2605.5	2443.1	2230.3	2006.0	1807.5	1621.8	1492.9	1425.9	1407.8
15°	2780.8	2744.7	2541.0	2300.0	2027.9	1735.3	1452.9	1229.9	1094.5	1039.1	1039.1
17.5°	2782.1	2695.8	2465.0	2155.6	1789.4	1393.6	1082.9	899.9	825.1	817.4	823.8
20°	2756.3	2659.7	2385.1	1985.4	1490.3	1046.8	786.4	711.6	711.6	722.0	725.8
22.5°	2733.1	2605.5	2258.7	1775.3	1186.1	758.1	639.5	617.5	642.0	660.1	667.8
25°	2700.9	2560.4	2129.8	1557.4	902.5	611.1	555.7	560.8	584.0	616.2	613.7
27.5°	2654.5	2481.7	1976.4	1304.7	671.7	527.3	513.1	515.7	540.2	554.4	551.8
30°	2601.6	2401.8	1834.6	1053.3	532.4	483.5	482.2	488.6	492.5	500.2	498.9
32.5°	2534.6	2296.1	1683.7	818.7	479.6	459.0	453.8	449.9	453.8	452.5	448.6
35°	2486.9	2239.4	1530.3	624.0	449.9	437.0	433.2	426.7	421.6	413.8	412.5
37.5°	2474.0	2182.6	1369.1	509.2	426.7	420.3	407.4	395.8	389.3	385.5	382.9
40°	2466.3	2145.3	1211.9	447.4	407.4	400.9	385.5	370.0	363.6	359.7	361.0
42.5°	2493.3	2124.6	1052.0	416.4	390.6	379.0	362.3	344.2	342.9	340.4	344.2
45°	2588.7	2150.4	903.7	394.5	373.9	354.5	332.6	323.6	322.3	319.7	322.3
47.5°	2805.3	2214.9	777.4	380.3	355.8	339.1	315.9	303.0	301.7	300.4	300.4
50°	3104.4	2413.4	671.7	363.6	344.2	321.0	299.1	284.9	282.3	277.2	277.2
52.5°	3573.7	2747.3	608.5	354.5	323.6	304.3	281.0	265.6	259.1	254.0	254.0
55°	4102.3	3161.2	596.9	339.1	301.7	283.6	263.0	247.5	241.1	234.6	232.1
57.5°	4704.4	3709.1	679.4	328.8	286.2	263.0	239.8	225.6	220.5	214.0	211.4
60°	5265.2	4255.7	936.0	313.3	272.0	243.7	220.5	206.3	199.8	193.4	193.4
62.5°	5913.6	4932.5	1370.4	313.3	259.1	223.0	199.8	189.5	185.6	179.2	177.9
65°	6680.7	5632.6	1687.6	332.6	255.3	205.0	180.5	170.2	166.3	162.4	161.2
67.5°	7264.7	6034.8	1451.7	384.2	272.0	189.5	161.2	154.7	152.1	148.3	145.7
70°	7326.6	5789.9	875.4	415.1	288.8	174.0	144.4	137.9	137.9	134.1	131.5
72.5°	6771.0	5137.5	589.2	370.0	261.7	156.0	127.6	122.5	119.9	117.3	116.0
75°	5666.1	4357.6	465.4	295.2	201.1	128.9	110.9	105.7	101.8	100.6	98.0
77.5°	3805.8	2832.4	344.2	230.8	148.3	104.4	92.8	87.7	83.8	82.5	78.6
80°	1462.0	1079.1	221.7	167.6	104.4	82.5	73.5	68.3	65.8	61.9	59.3
82.5°	430.6	349.4	123.8	103.1	67.0	56.7	52.9	49.0	45.1	41.3	40.0
85°	177.9	159.9	76.1	54.1	41.3	33.5	30.9	27.1	23.2	20.6	18.0
87.5°	82.5	68.3	34.8	20.6	14.2	7.7	3.9	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)