

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: P483580

Luminaire Tested: **IFLD-S-SA3D-735-U-T4W-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483580  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3D-735-U-T4W-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield  
Light Source: (48) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

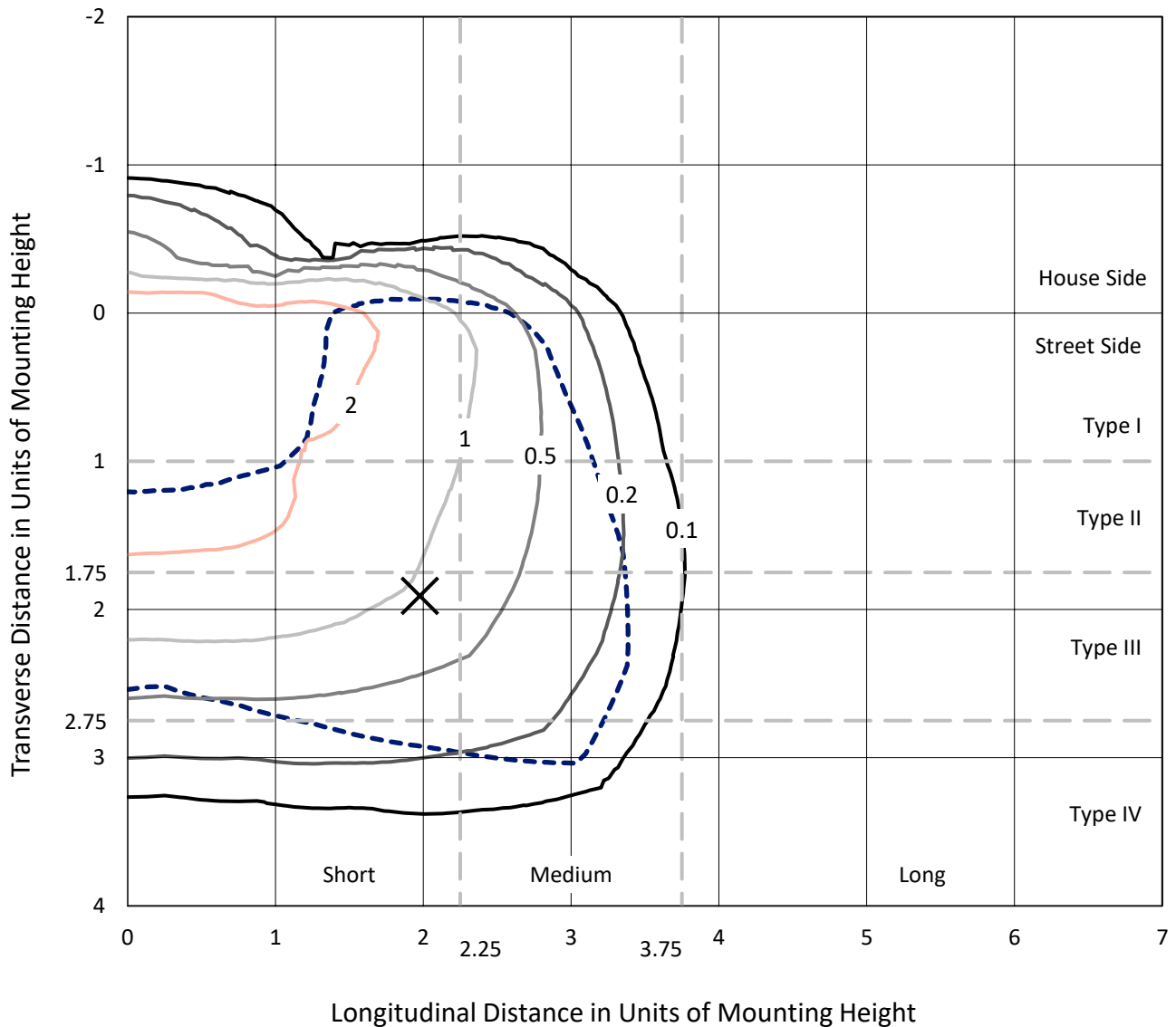
Lumens per Lamp: N/A  
Luminaire Lumens: 16961.1 lumens  
Efficiency: N/A  
Efficacy: 92.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G4

Input Watts (W): 184.1  
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

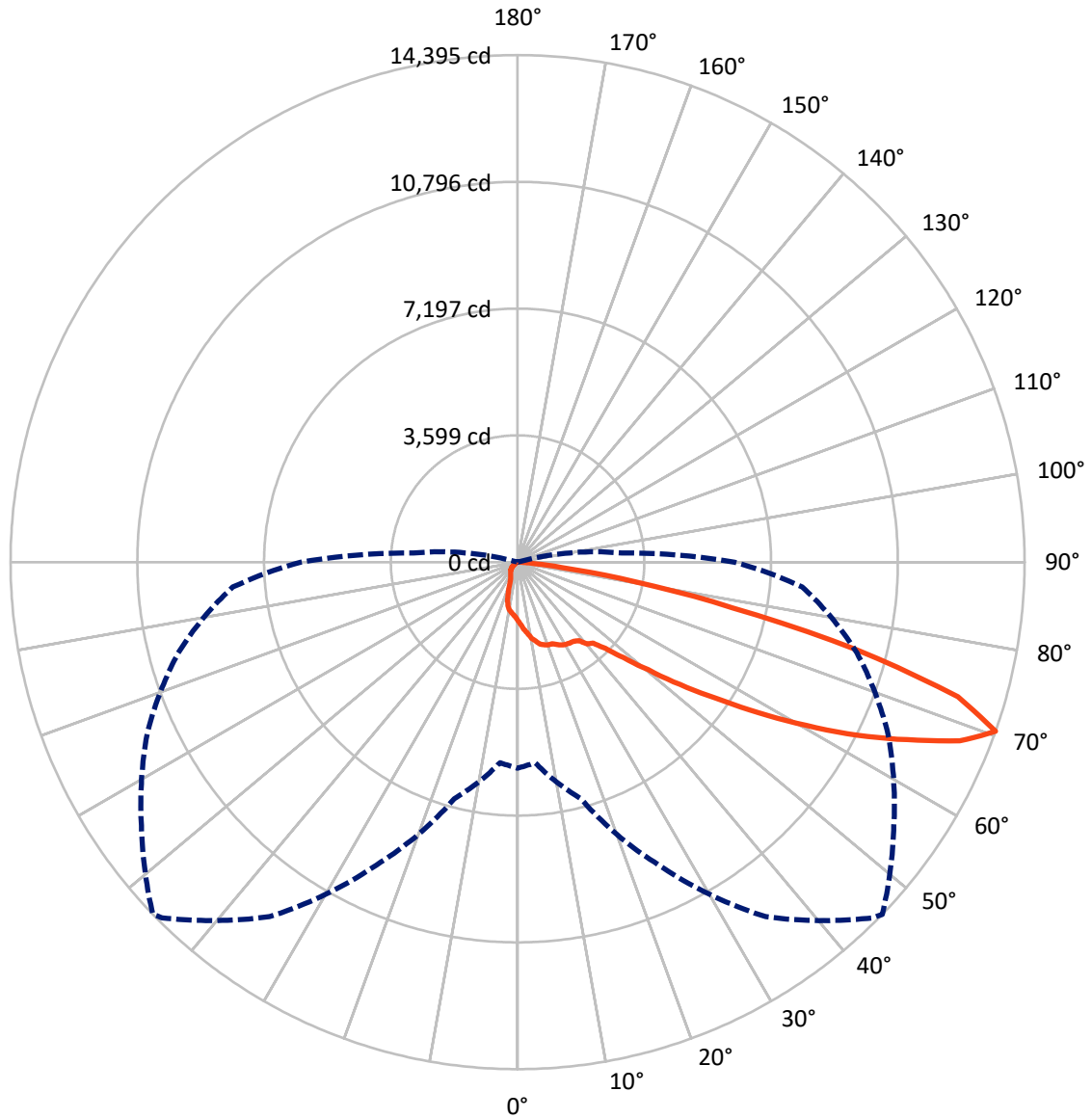
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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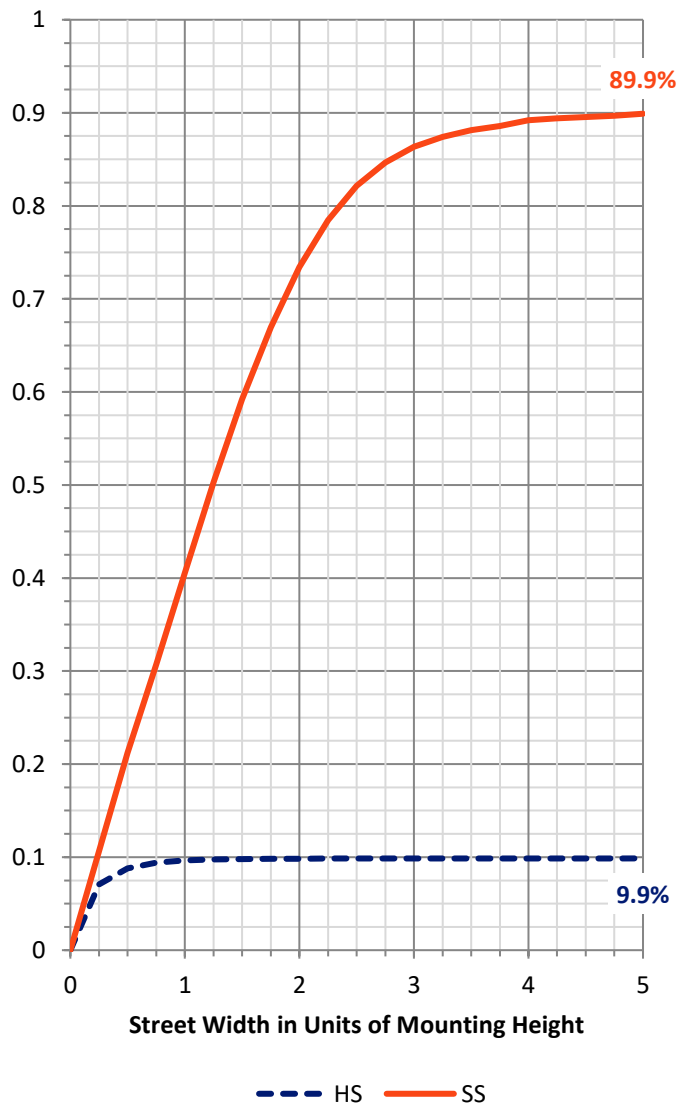
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1687.7	0.0	1687.7
	% Fixture	10.0	0.0	10.0
<b>Street Side</b>	Lumens	15273.5	0.0	15273.5
	% Fixture	90.0	0.0	90.0
<b>Total</b>	Lumens	16961.1	0.0	16961.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	166.0	1.0
10°-20°	501.4	3.0
20°-30°	803.1	4.7
30°-40°	1146.3	6.8
40°-50°	1979.4	11.7
50°-60°	3789.7	22.3
60°-70°	5612.0	33.1
70°-80°	2779.5	16.4
80°-90°	183.7	1.1
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°	16961.1	100.0
0°-180°	16961.1	100.0

**Coefficient of Utilization**



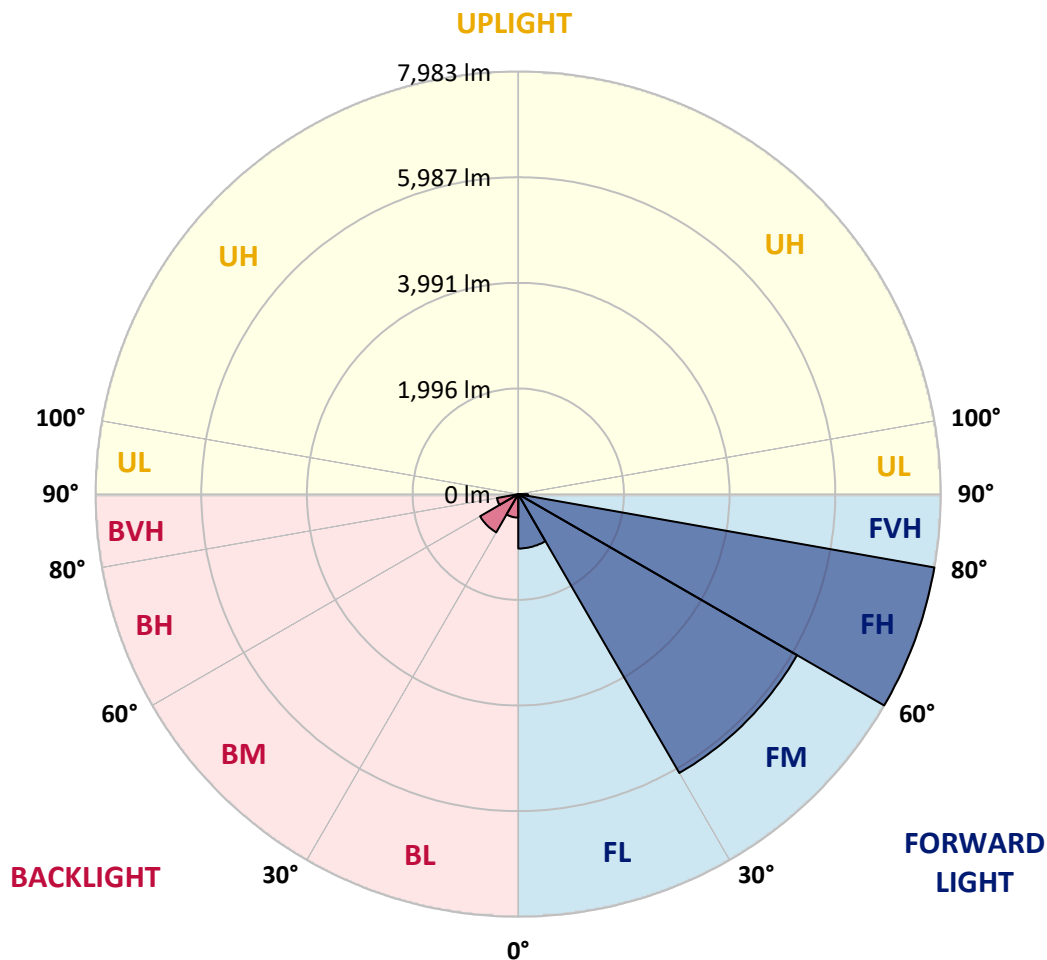
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1027.1	6.1			
FM (30°-60°)	6082.2	35.9			
FH (60°-80°)	7982.8	47.1			G4/12000
FVH (80°-90°)	181.3	1.1			G2/225
BL (0°-30°)	443.4	2.6	B1/500		
BM (30°-60°)	833.2	4.9	B1/1000		
BH (60°-80°)	408.7	2.4	B1/500		G1/500
BVH (80°-90°)	2.3	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-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1665.1	1665.1	1665.1	1665.1	1665.1	1665.1	1665.1	1665.1	1665.1	1665.1	1665.1
2.5°	1857.9	1845.7	1826.2	1818.9	1799.3	1789.6	1774.9	1767.6	1740.7	1713.9	1696.8
5°	2085.0	2055.7	2065.5	2036.2	1972.7	1921.4	1919.0	1862.8	1801.8	1752.9	1687.0
7.5°	2314.5	2290.1	2253.4	2211.9	2141.1	2065.5	2043.5	1989.8	1904.3	1818.9	1731.0
10°	2487.8	2470.7	2439.0	2380.4	2282.7	2197.3	2199.7	2109.4	2019.1	1921.4	1801.8
12.5°	2595.2	2602.6	2556.2	2497.6	2412.1	2304.7	2302.3	2241.2	2138.7	2036.2	1894.6
15°	2702.7	2729.5	2658.7	2590.4	2480.5	2402.4	2417.0	2343.8	2243.7	2126.5	1970.2
17.5°	2719.8	2727.1	2712.4	2612.3	2531.8	2465.8	2468.3	2419.5	2343.8	2216.8	2082.5
20°	2690.5	2685.6	2668.5	2595.2	2541.5	2502.5	2504.9	2492.7	2451.2	2348.7	2165.6
22.5°	2605.0	2605.0	2583.0	2534.2	2509.8	2546.4	2517.1	2563.5	2519.6	2458.5	2307.2
25°	2536.6	2563.5	2551.3	2519.6	2529.3	2578.2	2592.8	2636.7	2629.4	2553.7	2404.8
27.5°	2609.9	2578.2	2585.5	2548.9	2585.5	2658.7	2666.0	2697.8	2695.3	2634.3	2492.7
30°	2658.7	2688.0	2631.9	2551.3	2590.4	2714.9	2710.0	2751.5	2771.0	2697.8	2575.7
32.5°	2815.0	2790.6	2744.2	2636.7	2641.6	2712.4	2734.4	2788.1	2800.3	2756.4	2656.3
35°	3134.8	3098.2	2895.5	2734.4	2710.0	2744.2	2758.8	2863.8	2885.8	2836.9	2741.7
37.5°	3628.0	3545.0	3300.8	2944.4	2834.5	2827.2	2827.2	2966.3	3049.3	2937.0	2868.7
40°	4333.5	4216.4	3952.7	3332.6	2998.1	3027.4	3056.7	3132.4	3122.6	3049.3	3034.7
42.5°	5232.0	5141.7	4856.0	3984.4	3310.6	3164.1	3139.7	3242.2	3396.0	3366.7	3357.0
45°	5981.5	5986.4	5803.3	4878.0	3850.1	3479.0	3496.1	3574.3	3833.0	3811.1	3808.6
47.5°	6528.4	6460.0	6433.2	5739.8	4636.3	4077.2	4052.8	4106.5	4443.4	4582.6	4646.0
50°	7026.4	6980.1	6916.6	6577.2	5581.1	4826.7	4802.3	4807.2	5322.3	5517.6	5673.9
52.5°	7644.1	7702.7	7492.8	7285.2	6804.3	5800.8	5774.0	5678.8	6318.4	6587.0	6772.5
55°	8405.8	8296.0	8059.2	8166.6	7973.7	6853.1	6804.3	6692.0	7453.7	7566.0	7761.3
57.5°	8574.3	8491.3	8735.4	9116.3	9301.9	8088.5	8068.9	7866.3	8408.3	8305.8	8857.5
60°	8994.2	9016.2	9355.6	10112.4	10434.7	9514.3	9419.0	9062.6	9333.6	9353.1	9941.5
62.5°	9426.4	9375.1	10134.4	10861.9	11357.5	10864.4	10832.6	10124.6	10432.2	10183.2	10962.0
65°	9109.0	9187.1	10273.5	11491.8	12553.8	12185.2	12158.3	11147.6	11316.0	11006.0	11377.1
67.5°	7981.0	7822.3	9343.4	11203.7	13169.1	13569.5	13540.2	12263.3	11814.1	11001.1	10515.2
70°	5849.7	5713.0	6953.2	9487.4	12287.7	14277.5	14394.7	13039.7	11611.5	9975.7	8112.9
72.5°	2866.2	2868.7	3896.5	6433.2	9721.8	13012.8	13071.4	11955.7	9975.7	7353.6	4594.8
75°	847.2	856.9	1442.9	3154.3	6284.2	9882.9	9948.8	9074.8	6914.1	3798.9	1567.4
77.5°	310.1	310.1	478.5	1184.1	3134.8	6237.9	6233.0	5571.3	3501.0	1286.6	366.2
80°	161.1	168.5	249.0	483.4	1357.4	3249.5	3371.6	2727.1	1330.6	542.0	107.4
82.5°	65.9	73.2	136.7	249.0	651.9	1140.1	1247.6	1069.3	578.6	378.4	48.8
85°	19.5	22.0	65.9	139.2	256.4	285.6	317.4	358.9	363.8	293.0	22.0
87.5°	2.4	2.4	26.9	46.4	56.2	61.0	70.8	70.8	185.5	205.1	12.2
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°	1665.1	1665.1	1665.1	1665.1	1665.1	1665.1	1665.1	1665.1	1665.1	1665.1	1665.1
2.5°	1677.3	1665.1	1645.5	1601.6	1591.8	1560.1	1557.6	1528.3	1538.1	1518.6	1511.2
5°	1665.1	1638.2	1584.5	1550.3	1516.1	1494.2	1479.5	1467.3	1464.9	1455.1	1450.2
7.5°	1687.0	1650.4	1567.4	1513.7	1455.1	1435.6	1403.8	1401.4	1384.3	1367.2	1367.2
10°	1760.3	1694.4	1604.0	1513.7	1438.0	1374.5	1301.3	1247.6	1228.0	1184.1	1189.0
12.5°	1818.9	1760.3	1628.4	1535.7	1420.9	1276.9	1115.7	991.2	932.6	876.5	898.4
15°	1901.9	1816.4	1674.8	1540.5	1355.0	1106.0	842.3	703.1	649.4	637.2	634.8
17.5°	1992.2	1901.9	1733.4	1528.3	1220.7	854.5	620.1	539.6	549.3	564.0	561.5
20°	2092.3	1982.4	1777.4	1486.8	1008.3	620.1	507.8	505.4	520.0	542.0	546.9
22.5°	2197.3	2102.1	1831.1	1362.3	752.0	498.1	488.3	488.3	498.1	524.9	520.0
25°	2314.5	2187.5	1857.9	1169.4	539.6	459.0	463.9	473.6	478.5	500.5	502.9
27.5°	2404.8	2282.7	1865.3	937.5	439.5	424.8	437.0	449.2	456.5	473.6	481.0
30°	2487.8	2402.4	1826.2	698.2	402.8	395.5	400.4	417.5	432.1	446.8	446.8
32.5°	2592.8	2470.7	1735.9	495.6	380.9	368.7	366.2	373.5	390.6	407.7	407.7
35°	2700.2	2585.5	1591.8	398.0	361.3	344.2	334.5	327.2	334.5	346.7	356.4
37.5°	2856.5	2758.8	1411.1	366.2	346.7	322.3	302.7	285.6	273.4	271.0	278.3
40°	3078.6	2954.1	1179.2	344.2	329.6	300.3	271.0	241.7	214.8	197.8	200.2
42.5°	3415.6	3242.2	927.7	332.0	317.4	275.9	234.4	192.9	158.7	141.6	141.6
45°	3896.5	3623.1	681.2	319.8	302.7	246.6	192.9	144.0	109.9	100.1	102.5
47.5°	4621.6	4082.1	488.3	300.3	283.2	214.8	151.4	102.5	80.6	75.7	78.1
50°	5568.9	4626.5	380.9	278.3	258.8	180.7	112.3	75.7	63.5	61.0	63.5
52.5°	6562.6	5175.8	334.5	258.8	222.2	144.0	83.0	61.0	53.7	51.3	53.7
55°	7412.2	5529.8	290.5	229.5	178.2	107.4	65.9	53.7	46.4	39.1	39.1
57.5°	8271.6	5708.1	229.5	190.4	131.8	80.6	56.2	46.4	39.1	31.7	29.3
60°	8969.8	5835.0	163.6	141.6	92.8	63.5	48.8	41.5	31.7	24.4	22.0
62.5°	9428.8	5471.2	119.6	107.4	68.4	53.7	41.5	34.2	24.4	17.1	17.1
65°	9201.8	4968.3	92.8	75.7	51.3	41.5	34.2	24.4	17.1	9.8	7.3
67.5°	8256.9	4047.9	75.7	56.2	39.1	31.7	26.9	19.5	9.8	2.4	2.4
70°	6159.7	2966.3	61.0	41.5	31.7	24.4	19.5	12.2	4.9	2.4	0.0
72.5°	3369.2	1623.6	48.8	34.2	24.4	19.5	14.6	9.8	4.9	0.0	0.0
75°	1113.3	432.1	36.6	24.4	14.6	12.2	9.8	7.3	2.4	0.0	0.0
77.5°	268.6	112.3	29.3	22.0	12.2	7.3	4.9	2.4	2.4	0.0	0.0
80°	83.0	46.4	22.0	14.6	9.8	7.3	2.4	0.0	0.0	0.0	0.0
82.5°	34.2	22.0	9.8	9.8	7.3	2.4	0.0	0.0	0.0	0.0	0.0
85°	17.1	12.2	7.3	4.9	4.9	2.4	0.0	0.0	0.0	0.0	0.0
87.5°	12.2	4.9	2.4	2.4	0.0	0.0	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)