

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: P476575

Luminaire Tested: **IFLD-S-SA6D-735-U-T2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476575  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6D-735-U-T2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens  
Light Source: (96) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

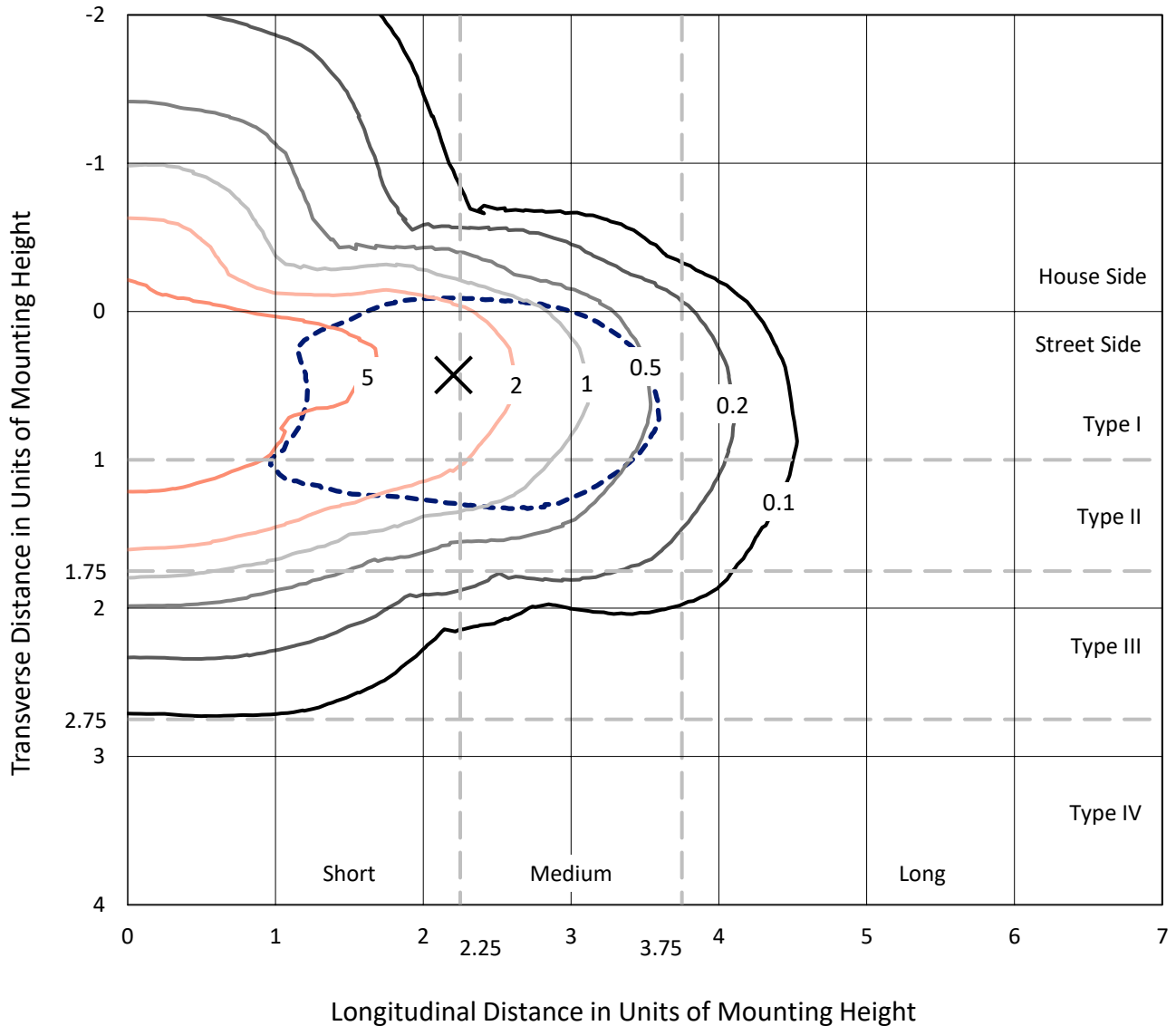
Lumens per Lamp: N/A  
Luminaire Lumens: 45041 lumens  
Efficiency: N/A  
Efficacy: 122.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G5

Input Watts (W): 368.2  
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

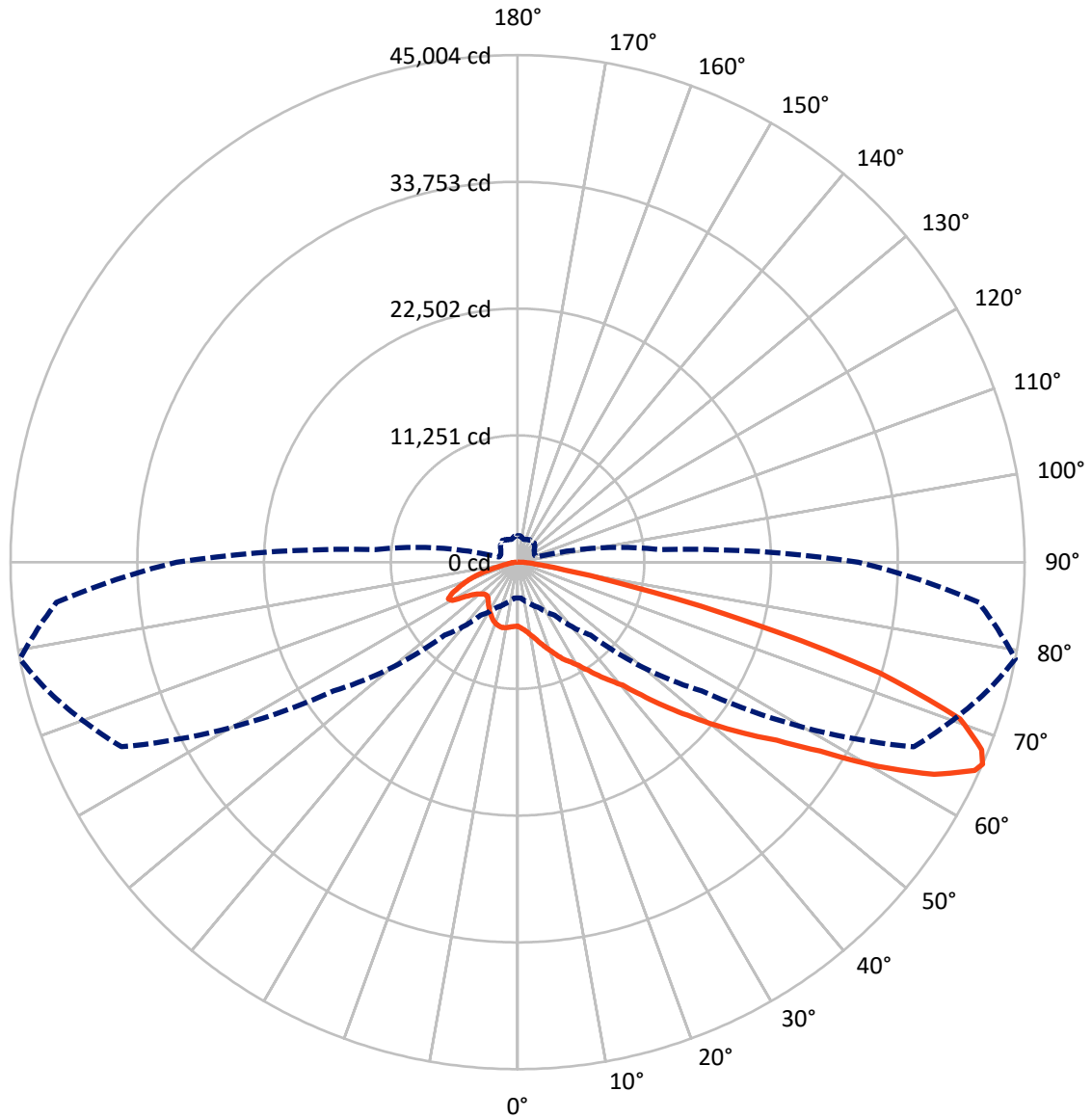
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9095.4	0.0	9095.4
	% Fixture	20.2	0.0	20.2
<b>Street Side</b>	Lumens	35945.6	0.0	35945.6
	% Fixture	79.8	0.0	79.8
<b>Total</b>	Lumens	45041.0	0.0	45041.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	559.2	1.2
10°-20°	1726.9	3.8
20°-30°	2964.3	6.6
30°-40°	4579.3	10.2
40°-50°	7334.8	16.3
50°-60°	10951.4	24.3
60°-70°	11252.6	25.0
70°-80°	4988.1	11.1
80°-90°	684.4	1.5
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°	45041.0	100.0
0°-180°	45041.0	100.0

**Coefficient of Utilization**



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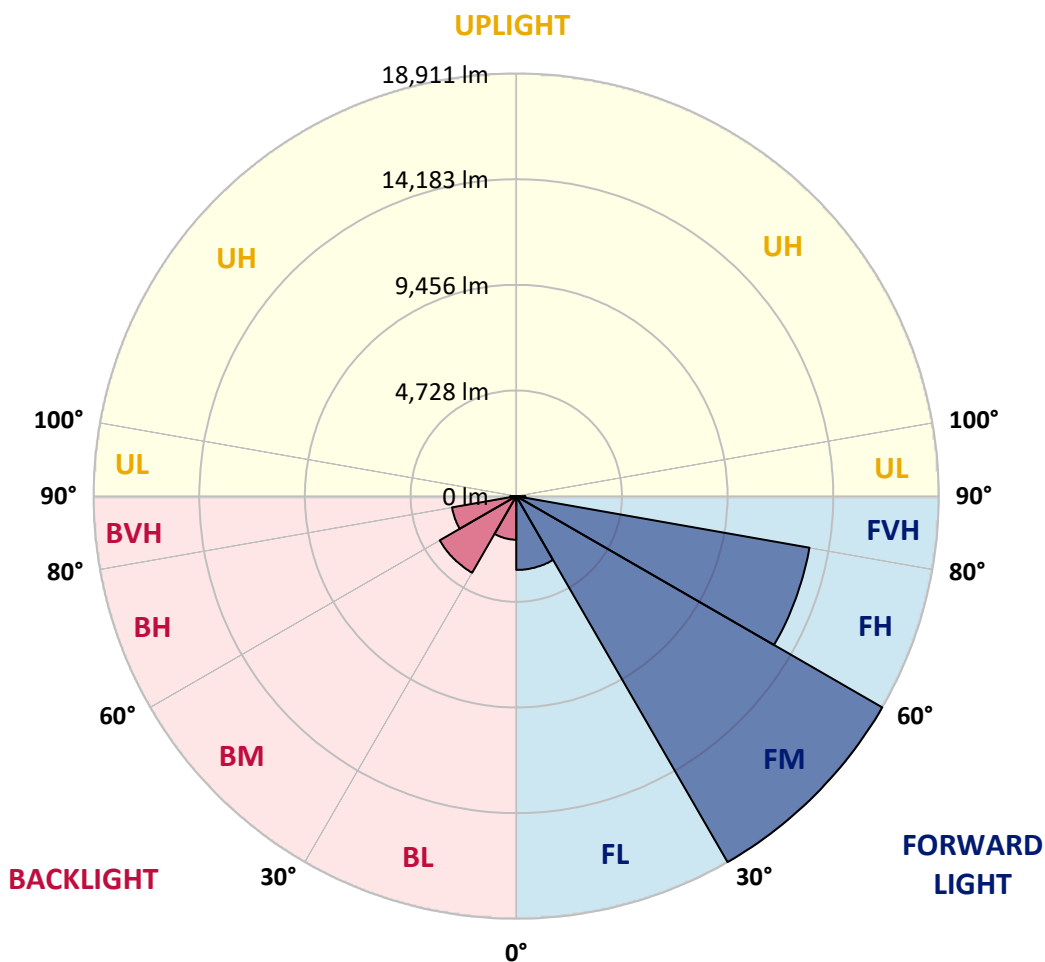
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3301.8	7.3			
FM (30°-60°)	18911.2	42.0			
FH (60°-80°)	13322.1	29.6			G5
FVH (80°-90°)	410.5	0.9			G3/500
BL (0°-30°)	1948.7	4.3	B3/2500		
BM (30°-60°)	3954.3	8.8	B3/5000		
BH (60°-80°)	2918.5	6.5	B4/5000		G4/5000
BVH (80°-90°)	273.9	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	5687.4	5687.4	5687.4	5687.4	5687.4	5687.4	5687.4	5687.4	5687.4	5687.4	5687.4
2.5°	6049.1	6054.0	6054.0	6034.2	6039.2	6054.0	5999.5	5880.6	5880.6	5860.8	5826.1
5°	6420.7	6395.9	6361.2	6366.2	6346.3	6346.3	6286.9	6172.9	6073.9	6034.2	5930.2
7.5°	6470.2	6495.0	6490.0	6549.5	6579.2	6579.2	6608.9	6514.8	6366.2	6272.0	6168.0
10°	6569.3	6504.9	6499.9	6638.6	6683.2	6787.3	6906.2	6856.6	6732.8	6599.0	6460.3
12.5°	6628.7	6668.4	6668.4	6737.7	6841.8	6995.3	7203.4	7297.5	7104.3	6965.6	6752.6
15°	6717.9	6663.4	6821.9	6881.4	7079.6	7188.6	7485.8	7728.6	7599.8	7431.3	7094.4
17.5°	6757.5	6722.9	6812.0	6921.0	7257.9	7421.4	7783.1	8119.9	8011.0	7902.0	7555.2
20°	6960.7	6955.7	6995.3	7084.5	7327.3	7649.3	8100.1	8565.8	8605.5	8407.3	7936.6
22.5°	7456.1	7391.7	7391.7	7357.0	7461.0	7793.0	8402.3	9046.4	9224.7	8991.9	8367.7
25°	7911.9	8001.0	7946.6	7788.0	7748.4	7921.8	8620.3	9556.7	9794.5	9576.5	8952.3
27.5°	8496.5	8526.2	8620.3	8407.3	8134.8	8189.3	8858.1	9844.0	10334.5	10042.2	9284.2
30°	9338.7	9284.2	9264.4	9026.6	8669.9	8595.6	9130.6	10265.1	11042.9	10631.7	9675.6
32.5°	9908.4	10042.2	10037.2	9710.2	9279.2	9115.7	9467.5	10661.5	11800.9	11419.5	10398.9
35°	11038.0	11176.7	11067.7	10587.1	10081.8	9754.8	9953.0	11176.7	12667.9	12370.7	11013.2
37.5°	12479.7	12806.6	12573.8	11687.0	10973.6	10616.9	10626.8	11736.5	13554.7	13312.0	11672.1
40°	13475.4	13916.4	13594.3	12762.0	12004.0	11667.2	11533.4	12400.4	14614.9	14357.3	12702.6
42.5°	14709.0	15075.7	14907.2	14084.8	13198.0	12910.7	12643.1	13510.1	16234.9	16116.0	14025.4
45°	16056.6	16230.0	16175.5	15655.3	14669.4	14570.3	13980.8	14971.6	18142.3	18191.9	15680.1
47.5°	17310.0	17404.1	17508.2	17131.7	16517.3	16601.6	15521.5	16537.1	19995.2	20322.2	17523.0
50°	17632.0	17954.1	18196.8	18449.5	18583.2	19153.0	17220.8	18459.4	22125.5	22759.6	19574.1
52.5°	17305.1	17280.3	18018.5	18811.1	20148.8	21342.7	19534.4	20847.3	24008.1	25261.5	21451.7
55°	15818.8	15769.2	16958.3	18008.6	20619.4	22561.5	22838.9	24027.9	26282.1	27912.0	23993.2
57.5°	13217.8	12910.7	14208.7	15932.7	19598.9	22695.2	26158.2	28749.3	29779.8	31637.6	27872.4
60°	8882.9	8754.1	9997.6	12053.6	15912.9	20797.8	28144.9	34659.6	34709.2	36799.9	33891.7
62.5°	5469.4	5494.2	6291.8	7832.6	11142.0	16487.6	27287.8	39381.0	39390.9	41486.5	38846.0
65°	3576.9	3591.8	4235.8	5088.0	6960.7	11181.6	22566.4	39752.6	42645.8	44592.8	41115.0
66°	3185.6	3190.5	3745.4	4439.0	5766.7	9150.4	19930.8	38786.5	43379.1	45004.0	41085.3
67.5°	2685.2	2749.6	3195.5	3730.5	4498.4	6574.2	15813.8	35992.3	43002.5	44429.3	40153.9
70°	2100.6	2135.3	2487.0	3032.0	3373.8	3804.8	9398.1	29338.8	39361.2	41674.8	36765.2
72.5°	1684.4	1714.2	1981.7	2462.2	2739.7	2506.8	5117.7	21288.2	31092.6	33559.8	28917.7
75°	1421.9	1426.8	1555.6	1937.1	2254.2	1882.6	2724.8	13663.7	19950.6	21100.0	17716.3
77.5°	1149.4	1169.2	1258.4	1476.4	1813.2	1481.3	1625.0	7654.3	10017.4	10101.6	8189.3
80°	936.3	946.3	1000.8	1075.1	1382.2	1094.9	1099.8	3735.5	4295.3	4196.2	3329.2
82.5°	738.2	748.1	812.5	797.6	1015.6	782.8	683.7	1798.4	1976.7	1937.1	1530.9
85°	416.2	416.2	639.1	639.1	644.0	495.4	416.2	847.2	1045.3	976.0	718.4
87.5°	133.8	138.7	193.2	203.1	322.0	222.9	203.1	317.1	495.4	436.0	257.6
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°	5687.4	5687.4	5687.4	5687.4	5687.4	5687.4	5687.4	5687.4	5687.4	5687.4	5687.4
2.5°	5806.3	5727.1	5692.4	5578.4	5548.7	5474.4	5439.7	5395.1	5380.3	5315.9	5375.3
5°	5850.9	5826.1	5687.4	5543.8	5434.8	5385.2	5310.9	5211.8	5201.9	5112.7	5102.8
7.5°	6039.2	5955.0	5712.2	5558.6	5340.6	5216.8	5053.3	5003.8	4939.3	4909.6	4974.0
10°	6331.5	6118.4	5756.8	5370.4	5102.8	4954.2	4835.3	4800.6	4805.6	4785.8	4756.0
12.5°	6539.6	6336.4	5682.5	5211.8	4865.0	4721.4	4711.5	4746.1	4800.6	4775.9	4810.5
15°	6836.8	6455.3	5628.0	4949.3	4671.8	4632.2	4627.2	4731.3	4726.3	4726.3	4721.4
17.5°	7114.2	6574.2	5429.8	4721.4	4468.7	4498.4	4533.1	4528.1	4577.7	4597.5	4632.2
20°	7466.0	6713.0	5152.4	4493.5	4315.1	4305.2	4300.3	4305.2	4354.7	4384.5	4359.7
22.5°	7773.2	6742.7	4919.5	4275.5	4131.8	4092.2	4027.8	4092.2	4067.4	4077.3	4107.0
25°	8040.7	6747.6	4587.6	4112.0	3948.5	3859.3	3809.8	3804.8	3760.2	3755.3	3755.3
27.5°	8263.6	6579.2	4295.3	3884.1	3730.5	3646.3	3641.3	3586.8	3472.9	3398.6	3408.5
30°	8437.0	6450.4	4092.2	3685.9	3537.3	3522.4	3477.9	3354.0	3205.4	3111.2	3111.2
32.5°	8744.2	6192.8	3814.7	3482.8	3408.5	3388.7	3284.6	3175.6	3036.9	2947.8	2932.9
35°	8972.1	5955.0	3631.4	3309.4	3274.7	3235.1	3145.9	3027.0	2987.4	2967.6	2982.4
37.5°	9229.7	5687.4	3408.5	3160.8	3195.5	3121.2	3017.1	2962.6	3101.3	3066.7	3081.5
40°	9640.9	5499.2	3190.5	3071.6	3106.3	3022.1	2888.3	2868.5	3041.9	2918.0	2888.3
42.5°	10393.9	5494.2	3056.7	2937.8	2962.6	2898.2	2779.3	2769.4	2838.8	2690.1	2645.5
45°	11330.3	5667.6	2957.7	2838.8	2818.9	2809.0	2769.4	2724.8	2665.4	2472.2	2422.6
47.5°	12449.9	5950.0	2937.8	2690.1	2714.9	2799.1	2749.6	2635.6	2482.1	2358.2	2333.4
50°	13807.4	6534.6	2888.3	2581.1	2625.7	2759.5	2719.9	2561.3	2422.6	2343.3	2328.5
52.5°	15308.5	7272.8	2823.9	2412.7	2511.8	2724.8	2744.6	2596.0	2392.9	2323.5	2313.6
55°	17077.2	8362.7	2749.6	2229.4	2378.0	2690.1	2744.6	2496.9	2353.2	2353.2	2343.3
57.5°	20569.9	10324.6	2596.0	2061.0	2259.1	2625.7	2665.4	2501.9	2358.2	2358.2	2338.4
60°	25692.5	13386.3	2303.7	1932.1	2145.2	2536.6	2605.9	2427.6	2303.7	2333.4	2328.5
62.5°	29700.5	14317.7	2056.0	1808.3	2031.2	2373.1	2526.6	2348.3	2239.3	2348.3	2358.2
65°	30557.6	13376.4	1803.3	1674.5	1872.7	2214.5	2412.7	2234.3	2145.2	2358.2	2368.1
66°	30250.4	12643.1	1714.2	1634.9	1803.3	2135.3	2343.3	2194.7	2095.6	2348.3	2353.2
67.5°	28883.0	11543.3	1615.1	1550.7	1709.2	2021.3	2264.1	2140.2	2016.4	2318.6	2274.0
70°	25910.5	9789.5	1446.6	1402.0	1575.4	1833.1	2080.8	2001.5	1892.5	2135.3	2056.0
72.5°	19955.6	7822.7	1268.3	1273.2	1421.9	1639.8	1897.5	1843.0	1748.8	1872.7	1823.1
75°	12152.7	4998.8	1104.8	1114.7	1238.6	1456.5	1724.1	1684.4	1570.5	1639.8	1615.1
77.5°	5385.2	2477.1	931.4	951.2	1050.3	1283.1	1501.1	1436.7	1317.8	1332.7	1322.8
80°	2090.7	1174.1	758.0	782.8	847.2	1025.5	1243.5	1184.1	1080.0	1060.2	1050.3
82.5°	1005.7	654.0	584.6	594.5	619.3	817.4	1070.1	995.8	857.1	767.9	767.9
85°	505.3	406.2	411.2	376.5	411.2	554.9	723.3	604.4	500.4	445.9	455.8
87.5°	203.1	203.1	203.1	173.4	183.3	262.6	336.9	227.9	208.1	123.9	123.9
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)