

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: P476656

Luminaire Tested: **IFLD-M-SA4B-750-U-T2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476656  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4B-750-U-T2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens  
Light Source: (64) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

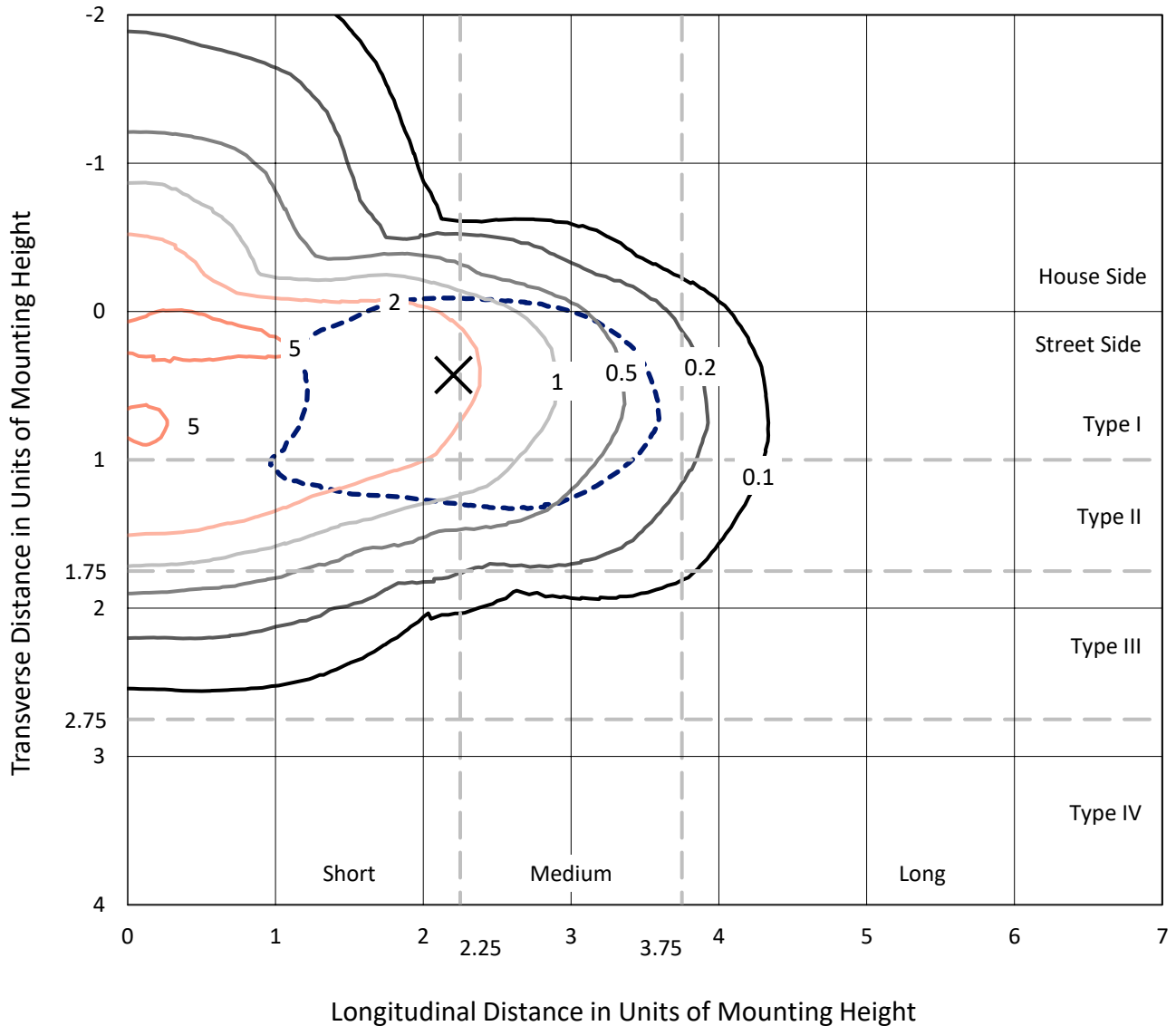
Lumens per Lamp: N/A  
Luminaire Lumens: 23334.3 lumens  
Efficiency: N/A  
Efficacy: 140.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

Input Watts (W): 166.1  
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

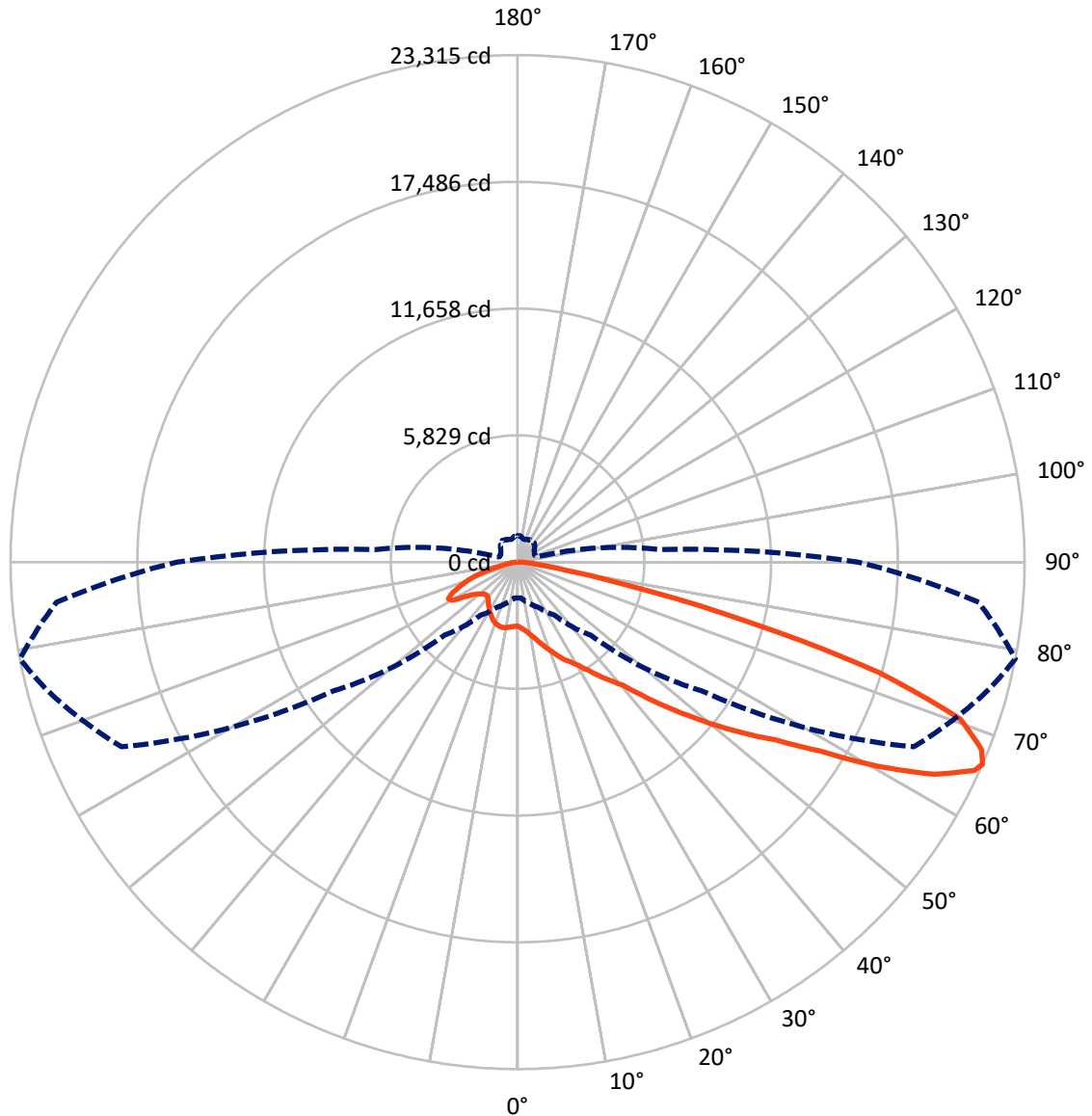
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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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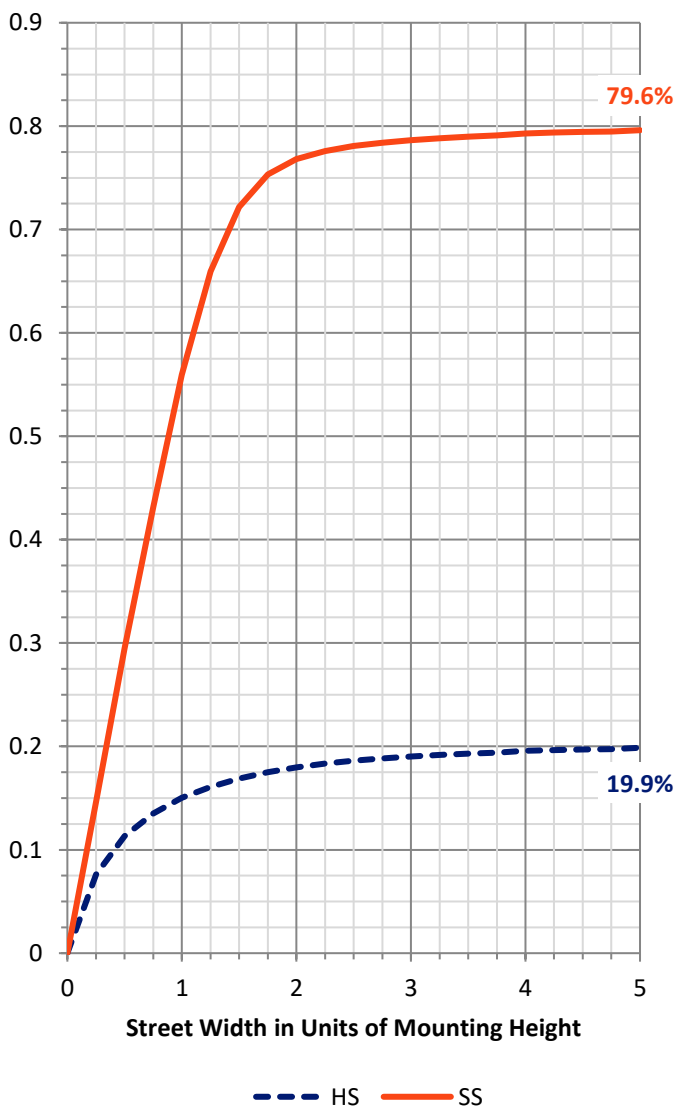
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4712.0	0.0	4712.0
	% Fixture	20.2	0.0	20.2
<b>Street Side</b>	Lumens	18622.2	0.0	18622.2
	% Fixture	79.8	0.0	79.8
<b>Total</b>	Lumens	23334.3	0.0	23334.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	289.7	1.2
10°-20°	894.7	3.8
20°-30°	1535.7	6.6
30°-40°	2372.4	10.2
40°-50°	3799.9	16.3
50°-60°	5673.6	24.3
60°-70°	5829.6	25.0
70°-80°	2584.2	11.1
80°-90°	354.6	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°	23334.3	100.0
0°-180°	23334.3	100.0

**Coefficient of Utilization**



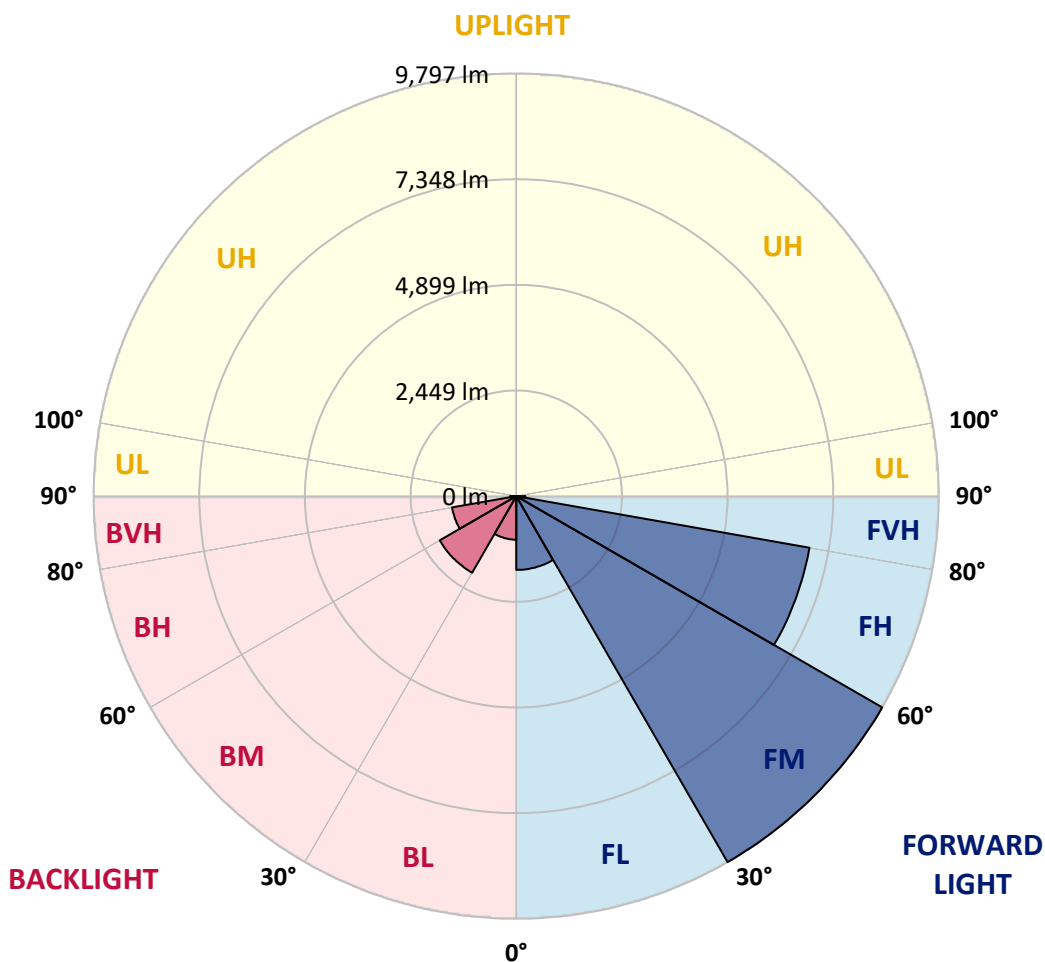
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1710.6	7.3			
FM (30°-60°)	9797.3	42.0			
FH (60°-80°)	6901.8	29.6			G3/7500
FVH (80°-90°)	212.7	0.9			G2/225
BL (0°-30°)	1009.5	4.3	B3/2500		
BM (30°-60°)	2048.6	8.8	B2/2500		
BH (60°-80°)	1512.0	6.5	B3/2500		G3/2500
BVH (80°-90°)	141.9	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2946.5	2946.5	2946.5	2946.5	2946.5	2946.5	2946.5	2946.5	2946.5	2946.5	2946.5
2.5°	3133.8	3136.4	3136.4	3126.1	3128.7	3136.4	3108.2	3046.6	3046.6	3036.3	3018.3
5°	3326.3	3313.5	3295.5	3298.1	3287.8	3287.8	3257.0	3198.0	3146.7	3126.1	3072.2
7.5°	3352.0	3364.8	3362.3	3393.1	3408.5	3408.5	3423.9	3375.1	3298.1	3249.3	3195.4
10°	3403.3	3370.0	3367.4	3439.3	3462.4	3516.3	3577.9	3552.2	3488.0	3418.7	3346.9
12.5°	3434.1	3454.7	3454.7	3490.6	3544.5	3624.1	3731.9	3780.6	3680.5	3608.7	3498.3
15°	3480.3	3452.1	3534.2	3565.0	3667.7	3724.2	3878.2	4003.9	3937.2	3849.9	3675.4
17.5°	3500.9	3482.9	3529.1	3585.6	3760.1	3844.8	4032.1	4206.7	4150.2	4093.7	3914.1
20°	3606.1	3603.5	3624.1	3670.3	3796.0	3962.8	4196.4	4437.7	4458.2	4355.5	4111.7
22.5°	3862.8	3829.4	3829.4	3811.4	3865.3	4037.3	4353.0	4686.6	4779.0	4658.4	4335.0
25°	4098.9	4145.1	4116.8	4034.7	4014.2	4104.0	4465.9	4951.0	5074.2	4961.3	4637.9
27.5°	4401.7	4417.1	4465.9	4355.5	4214.4	4242.6	4589.1	5099.9	5354.0	5202.5	4809.8
30°	4838.1	4809.8	4799.6	4676.4	4491.6	4453.1	4730.3	5318.0	5721.0	5508.0	5012.6
32.5°	5133.2	5202.5	5200.0	5030.6	4807.3	4722.6	4904.8	5523.4	6113.7	5916.0	5387.3
35°	5718.4	5790.3	5733.8	5484.9	5223.1	5053.7	5156.3	5790.3	6562.8	6408.8	5705.6
37.5°	6465.3	6634.7	6514.1	6054.6	5685.0	5500.3	5505.4	6080.3	7022.3	6896.5	6046.9
40°	6981.2	7209.6	7042.8	6611.6	6218.9	6044.4	5975.1	6424.2	7571.5	7438.0	6580.8
42.5°	7620.3	7810.2	7722.9	7296.9	6837.5	6688.6	6550.0	6999.2	8410.8	8349.2	7266.1
45°	8318.4	8408.2	8380.0	8110.5	7599.7	7548.4	7243.0	7756.3	9398.9	9424.6	8123.3
47.5°	8967.7	9016.5	9070.4	8875.3	8557.1	8600.7	8041.2	8567.4	10358.8	10528.2	9078.1
50°	9134.6	9301.4	9427.2	9558.1	9627.4	9922.5	8921.5	9563.2	11462.5	11791.0	10140.7
52.5°	8965.2	8952.3	9334.8	9745.4	10438.4	11057.0	10120.2	10800.3	12437.8	13087.2	11113.4
55°	8195.2	8169.5	8785.5	9329.6	10682.2	11688.4	11832.1	12448.1	13615.9	14460.3	12430.1
57.5°	6847.7	6688.6	7361.0	8254.2	10153.5	11757.7	13551.7	14894.1	15427.9	16390.4	14439.8
60°	4601.9	4535.2	5179.4	6244.6	8244.0	10774.6	14580.9	17956.0	17981.7	19064.8	17558.2
62.5°	2833.5	2846.4	3259.6	4057.8	5772.3	8541.7	14136.9	20402.0	20407.1	21492.8	20124.8
65°	1853.1	1860.8	2194.5	2635.9	3606.1	5792.8	11690.9	20594.5	22093.4	23102.1	21300.3
66°	1650.3	1652.9	1940.4	2299.7	2987.5	4740.5	10325.5	20094.0	22473.3	23315.1	21284.9
67.5°	1391.1	1424.5	1655.5	1932.7	2330.5	3405.9	8192.6	18646.4	22278.2	23017.4	20802.4
70°	1088.2	1106.2	1288.4	1570.8	1747.9	1971.2	4868.9	15199.5	20391.7	21590.3	19046.8
72.5°	872.6	888.0	1026.6	1275.6	1419.3	1298.7	2651.3	11028.7	16108.1	17386.2	14981.3
75°	736.6	739.2	805.9	1003.5	1167.8	975.3	1411.6	7078.7	10335.7	10931.2	9178.2
77.5°	595.5	605.7	651.9	764.9	939.4	767.4	841.8	3965.4	5189.7	5233.3	4242.6
80°	485.1	490.2	518.5	557.0	716.1	567.2	569.8	1935.2	2225.3	2173.9	1724.8
82.5°	382.4	387.6	420.9	413.2	526.2	405.5	354.2	931.7	1024.1	1003.5	793.1
85°	215.6	215.6	331.1	331.1	333.7	256.7	215.6	438.9	541.6	505.6	372.2
87.5°	69.3	71.9	100.1	105.2	166.8	115.5	105.2	164.3	256.7	225.9	133.5
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°	2946.5	2946.5	2946.5	2946.5	2946.5	2946.5	2946.5	2946.5	2946.5	2946.5	2946.5
2.5°	3008.1	2967.0	2949.0	2890.0	2874.6	2836.1	2818.1	2795.0	2787.3	2754.0	2784.8
5°	3031.2	3018.3	2946.5	2872.0	2815.6	2789.9	2751.4	2700.1	2694.9	2648.7	2643.6
7.5°	3128.7	3085.1	2959.3	2879.7	2766.8	2702.6	2617.9	2592.3	2558.9	2543.5	2576.9
10°	3280.1	3169.8	2982.4	2782.2	2643.6	2566.6	2505.0	2487.0	2489.6	2479.3	2463.9
12.5°	3387.9	3282.7	2943.9	2700.1	2520.4	2446.0	2440.8	2458.8	2487.0	2474.2	2492.2
15°	3541.9	3344.3	2915.7	2564.0	2420.3	2399.8	2397.2	2451.1	2448.5	2448.5	2446.0
17.5°	3685.7	3405.9	2813.0	2446.0	2315.1	2330.5	2348.5	2345.9	2371.6	2381.8	2399.8
20°	3867.9	3477.8	2669.3	2327.9	2235.5	2230.4	2227.8	2230.4	2256.1	2271.5	2258.6
22.5°	4027.0	3493.2	2548.6	2215.0	2140.6	2120.0	2086.7	2120.0	2107.2	2112.3	2127.7
25°	4165.6	3495.7	2376.7	2130.3	2045.6	1999.4	1973.7	1971.2	1948.1	1945.5	1945.5
27.5°	4281.1	3408.5	2225.3	2012.2	1932.7	1889.0	1886.5	1858.2	1799.2	1760.7	1765.8
30°	4370.9	3341.7	2120.0	1909.6	1832.6	1824.9	1801.8	1737.6	1660.6	1611.8	1611.8
32.5°	4530.1	3208.3	1976.3	1804.3	1765.8	1755.6	1701.7	1645.2	1573.3	1527.1	1519.4
35°	4648.1	3085.1	1881.3	1714.5	1696.5	1676.0	1629.8	1568.2	1547.7	1537.4	1545.1
37.5°	4781.6	2946.5	1765.8	1637.5	1655.5	1617.0	1563.1	1534.8	1606.7	1588.7	1596.4
40°	4994.6	2848.9	1652.9	1591.3	1609.3	1565.6	1496.3	1486.1	1575.9	1511.7	1496.3
42.5°	5384.8	2846.4	1583.6	1522.0	1534.8	1501.5	1439.9	1434.7	1470.7	1393.7	1370.6
45°	5869.8	2936.2	1532.3	1470.7	1460.4	1455.3	1434.7	1411.6	1380.8	1280.7	1255.1
47.5°	6449.9	3082.5	1522.0	1393.7	1406.5	1450.1	1424.5	1365.4	1285.9	1221.7	1208.9
50°	7153.1	3385.4	1496.3	1337.2	1360.3	1429.6	1409.1	1326.9	1255.1	1214.0	1206.3
52.5°	7930.8	3767.8	1463.0	1249.9	1301.3	1411.6	1421.9	1344.9	1239.7	1203.7	1198.6
55°	8847.1	4332.4	1424.5	1155.0	1232.0	1393.7	1421.9	1293.6	1219.1	1219.1	1214.0
57.5°	10656.6	5348.8	1344.9	1067.7	1170.4	1360.3	1380.8	1296.1	1221.7	1221.7	1211.4
60°	13310.5	6935.0	1193.5	1001.0	1111.3	1314.1	1350.0	1257.6	1193.5	1208.9	1206.3
62.5°	15386.8	7417.5	1065.1	936.8	1052.3	1229.4	1309.0	1216.6	1160.1	1216.6	1221.7
65°	15830.9	6929.9	934.2	867.5	970.2	1147.3	1249.9	1157.5	1111.3	1221.7	1226.8
66°	15671.7	6550.0	888.0	847.0	934.2	1106.2	1214.0	1137.0	1085.7	1216.6	1219.1
67.5°	14963.4	5980.2	836.7	803.3	885.5	1047.2	1172.9	1108.8	1044.6	1201.2	1178.1
70°	13423.4	5071.6	749.5	726.4	816.2	949.6	1078.0	1036.9	980.4	1106.2	1065.1
72.5°	10338.3	4052.7	657.1	659.6	736.6	849.5	983.0	954.8	906.0	970.2	944.5
75°	6295.9	2589.7	572.4	577.5	641.7	754.6	893.2	872.6	813.6	849.5	836.7
77.5°	2789.9	1283.3	482.5	492.8	544.1	664.8	777.7	744.3	682.7	690.4	685.3
80°	1083.1	608.3	392.7	405.5	438.9	531.3	644.2	613.4	559.5	549.3	544.1
82.5°	521.0	338.8	302.9	308.0	320.8	423.5	554.4	515.9	444.0	397.8	397.8
85°	261.8	210.5	213.0	195.1	213.0	287.5	374.7	313.1	259.2	231.0	236.1
87.5°	105.2	105.2	105.2	89.8	95.0	136.0	174.5	118.1	107.8	64.2	64.2
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)