

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: P477119

Luminaire Tested: **IFLD-S-SA6B-827-U-T2R**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P477119  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6B-827-U-T2R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens  
Light Source: (96) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

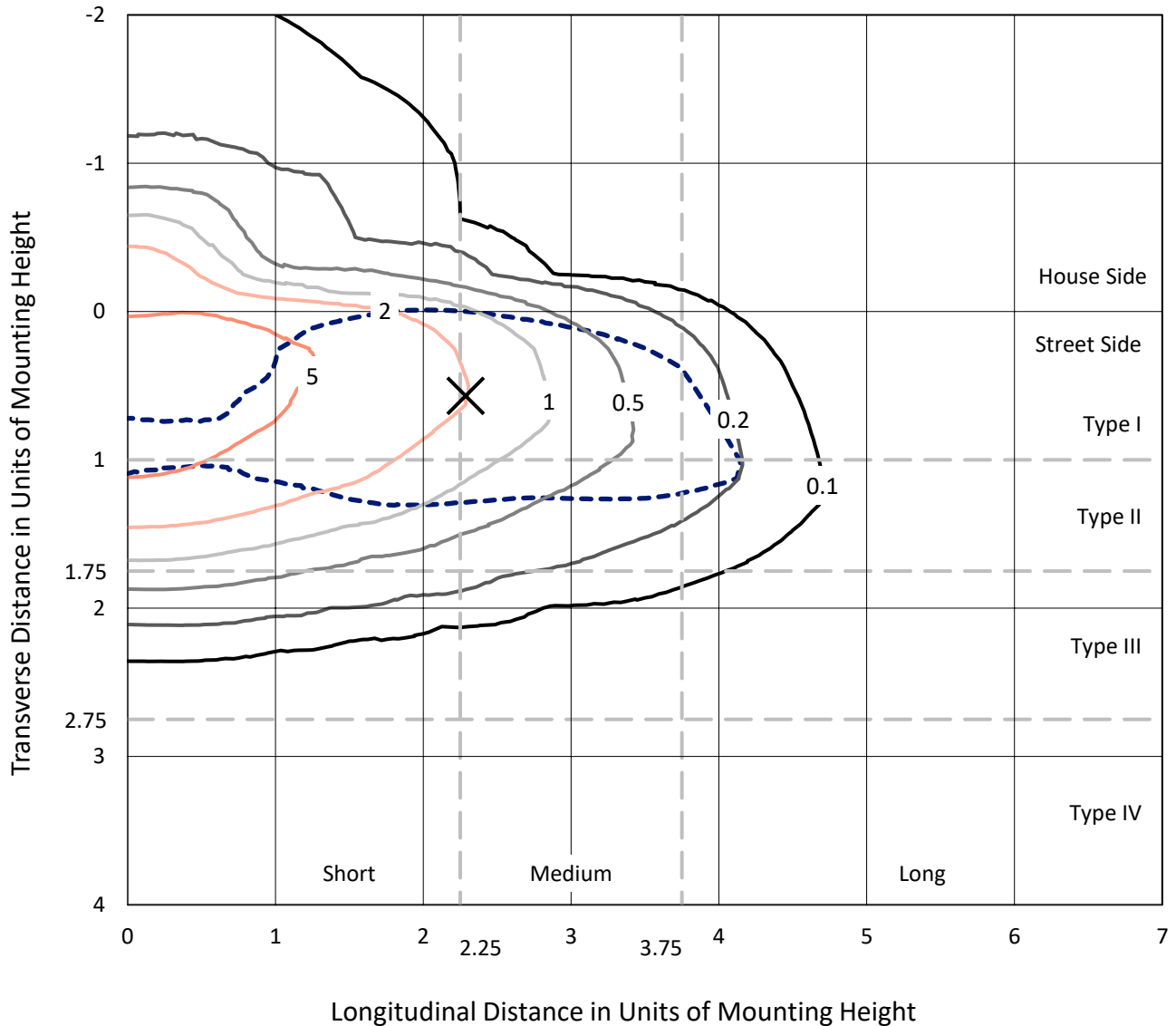
Lumens per Lamp: N/A  
Luminaire Lumens: 24675.3 lumens  
Efficiency: N/A  
Efficacy: 100.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3

Input Watts (W): 244.9  
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

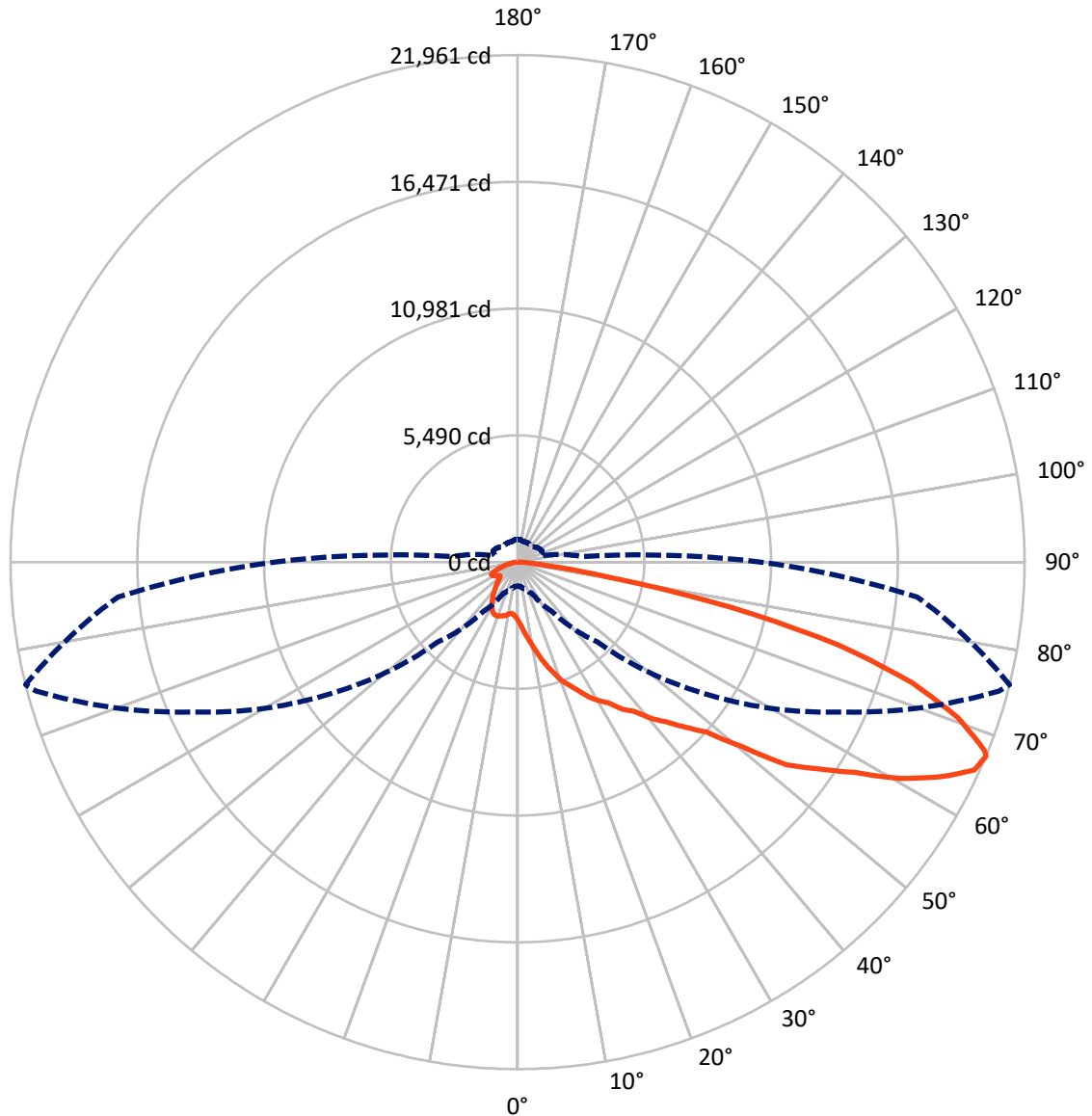
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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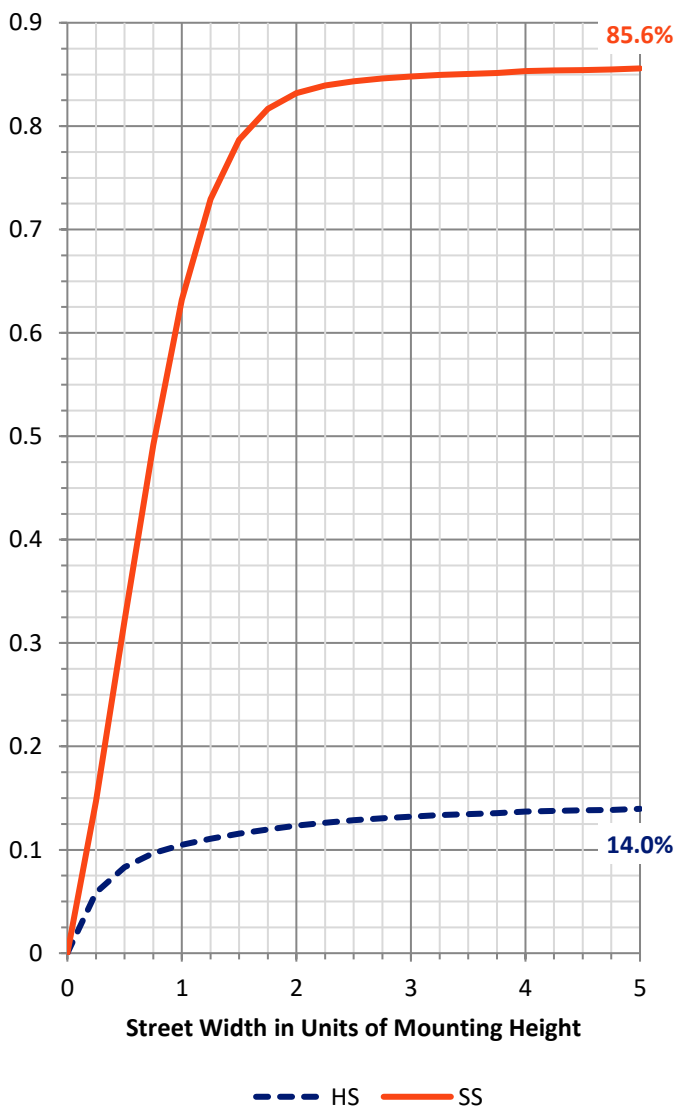
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3510.4	0.0	3510.4
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	21164.9	0.0	21164.9
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	24675.3	0.0	24675.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	292.5	1.2
10°-20°	1097.0	4.4
20°-30°	2039.5	8.3
30°-40°	3233.1	13.1
40°-50°	4471.7	18.1
50°-60°	5500.5	22.3
60°-70°	5118.4	20.7
70°-80°	2568.4	10.4
80°-90°	354.1	1.4
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°	24675.3	100.0
0°-180°	24675.3	100.0

**Coefficient of Utilization**



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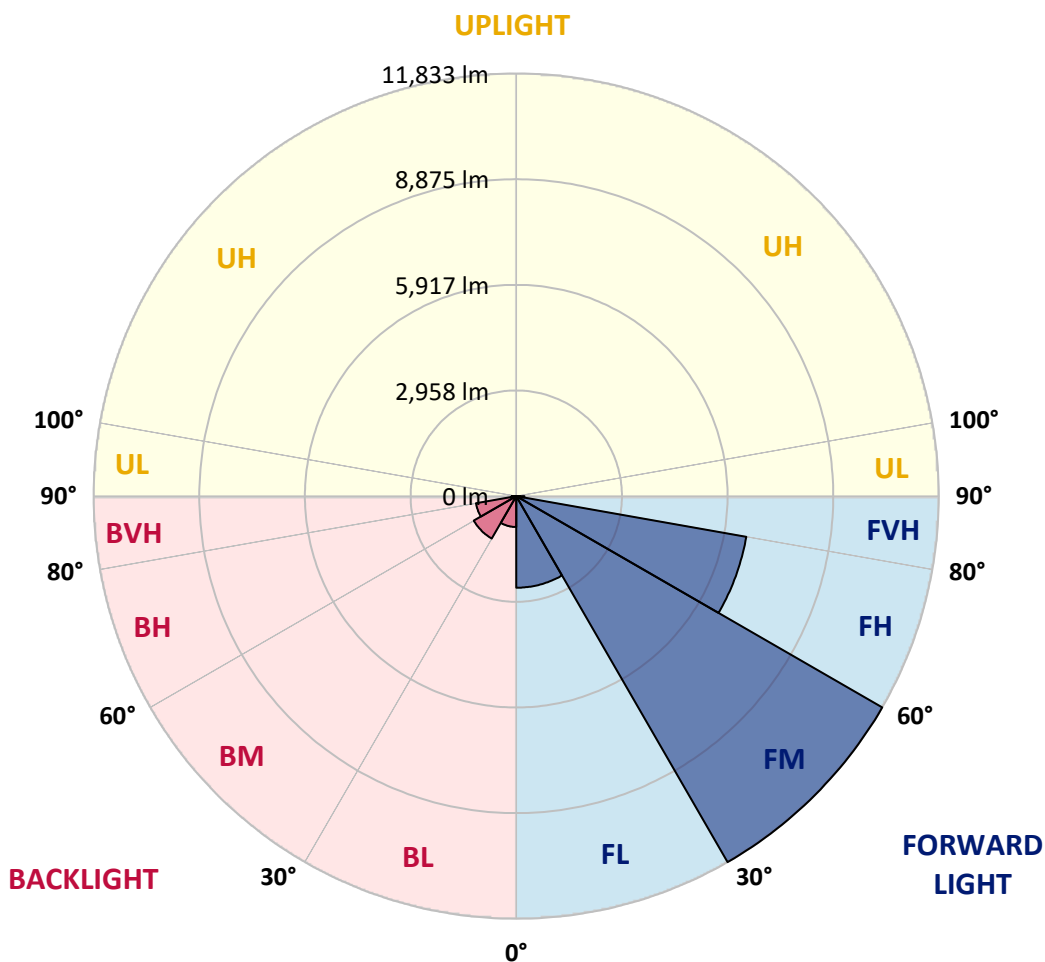
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2564.6	10.4			
FM (30°-60°)	11833.5	48.0			
FH (60°-80°)	6541.2	26.5			G3/7500
FVH (80°-90°)	225.6	0.9			G3/500
BL (0°-30°)	864.5	3.5	B2/1000		
BM (30°-60°)	1371.8	5.6	B2/2500		
BH (60°-80°)	1145.6	4.6	B3/2500		G3/2500
BVH (80°-90°)	128.5	0.5			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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2525.1	2525.1	2525.1	2525.1	2525.1	2525.1	2525.1	2525.1	2525.1	2525.1	2525.1
2.5°	3503.7	3461.5	3419.3	3329.4	3298.4	3214.1	3059.4	2887.9	2747.3	2727.6	2629.2
5°	4347.3	4285.4	4271.4	4220.8	4060.5	3897.4	3644.3	3368.7	3025.7	3051.0	2713.5
7.5°	4980.0	4943.4	4867.5	4819.7	4724.1	4507.6	4246.1	3880.5	3444.7	3360.3	2901.9
10°	5458.0	5407.4	5404.6	5362.4	5311.8	5089.6	4890.0	4397.9	3838.3	3723.0	3132.5
12.5°	5699.8	5691.4	5840.4	5840.4	5820.8	5728.0	5384.9	4935.0	4212.3	4172.9	3399.7
15°	5961.4	5891.1	6020.4	6118.8	6169.4	6217.2	5933.2	5458.0	4690.3	4614.4	3686.5
17.5°	5961.4	5955.7	6085.1	6248.2	6512.5	6574.4	6419.7	5938.9	5086.8	5030.6	4001.4
20°	5860.1	5941.7	6031.7	6251.0	6537.8	6788.1	6833.1	6431.0	5525.5	5480.5	4358.5
22.5°	6332.5	6253.8	6346.6	6431.0	6653.1	7032.7	7156.4	6864.0	5986.7	5815.1	4681.9
25°	7125.5	7072.1	7004.6	6880.9	6973.7	7139.6	7328.0	7184.6	6380.3	6189.1	4994.0
27.5°	7898.8	7901.6	7755.4	7485.4	7285.8	7319.5	7541.7	7465.8	6712.1	6627.8	5207.8
30°	8998.3	8930.8	8767.7	8402.1	8011.3	7690.7	7654.2	7727.3	7133.9	6970.8	5514.3
32.5°	9822.2	9836.2	9605.7	9079.8	8545.5	8284.0	7963.5	7994.4	7401.1	7280.2	5758.9
35°	10488.6	10471.7	10308.6	9872.8	9240.1	8925.2	8492.1	8315.0	8022.5	7831.3	6132.9
37.5°	11208.5	11070.7	10806.4	10314.3	9909.3	9473.5	9051.7	8652.4	8435.9	8205.3	6453.4
40°	11498.1	11498.1	11143.8	10918.8	10438.0	10109.0	9836.2	9096.7	8939.2	8894.2	6864.0
42.5°	11292.8	11419.4	11273.1	11017.3	10820.4	10404.3	10331.1	9557.9	9560.7	9470.7	7356.1
45°	11273.1	11098.8	10977.9	11042.6	10949.8	10927.3	11112.9	10196.2	10213.0	10201.8	8016.9
47.5°	10707.9	10629.2	10809.2	10916.0	10992.0	11340.6	11874.9	10958.2	11079.1	10994.8	8778.9
50°	10145.6	10131.5	10244.0	10632.0	10961.0	11534.7	12600.4	12133.6	12530.1	12524.5	10159.6
52.5°	8604.6	8753.6	9195.1	10016.2	10828.9	11799.0	13148.7	13635.2	14391.6	14596.9	11304.1
55°	7131.1	7052.4	7704.8	8897.0	10252.4	11903.0	13761.7	14537.8	15651.4	15800.4	12479.5
57.5°	5548.0	5694.2	6208.8	7353.3	9060.1	11388.4	14211.6	15429.2	17074.2	17189.5	13843.3
60°	4139.2	4158.9	4724.1	5646.4	7474.2	10227.1	14357.9	16343.1	18705.2	19034.2	15271.8
62.5°	2603.9	2722.0	3152.2	4060.5	5626.7	8601.8	13702.7	16897.1	20414.8	20502.0	16711.5
65°	1403.2	1479.1	1802.5	2373.3	3931.1	6506.9	11964.9	16565.3	21219.1	21736.5	17352.6
67°	1037.6	1051.7	1200.7	1515.6	2629.2	4898.4	9976.8	15364.6	21584.6	21961.4	17377.9
67.5°	972.9	992.6	1110.7	1361.0	2331.1	4510.4	9456.6	14937.1	21421.5	21826.4	17181.1
70°	832.3	838.0	866.1	936.4	1307.6	2713.5	6439.4	12240.5	19855.3	20243.3	15800.4
72.5°	739.5	745.2	756.4	770.5	885.8	1569.1	3917.1	9420.1	17257.0	17875.6	13632.4
75°	649.6	669.2	674.9	663.6	753.6	1020.7	2083.7	6923.0	14076.7	14377.6	10601.1
77.5°	551.1	559.6	570.8	582.1	672.1	762.0	1001.1	4673.5	9661.9	9479.1	5733.6
80°	464.0	466.8	475.2	483.7	582.1	582.1	568.0	2525.1	4220.8	4035.2	1937.4
82.5°	331.8	351.5	371.2	393.7	483.7	390.9	371.2	1124.8	1335.7	1271.0	655.2
85°	129.4	157.5	244.6	269.9	306.5	210.9	247.5	486.5	556.8	551.1	244.6
87.5°	22.5	25.3	67.5	104.0	112.5	73.1	118.1	174.3	208.1	225.0	90.0
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°	2525.1	2525.1	2525.1	2525.1	2525.1	2525.1	2525.1	2525.1	2525.1	2525.1	2525.1
2.5°	2547.6	2460.5	2356.4	2252.4	2184.9	2078.0	2069.6	2004.9	1996.5	1974.0	1985.2
5°	2567.3	2463.3	2252.4	2086.5	2010.6	1948.7	1962.7	1934.6	1926.2	1912.1	1889.6
7.5°	2722.0	2516.7	2201.8	2058.4	2002.1	1974.0	1974.0	1940.3	1914.9	1931.8	1948.7
10°	2823.2	2542.0	2241.1	2097.7	2052.7	1990.9	2013.4	1971.2	1985.2	1951.5	1951.5
12.5°	2986.3	2685.4	2322.7	2156.8	2083.7	2027.4	2049.9	2002.1	1990.9	1993.7	1985.2
15°	3205.6	2781.0	2359.2	2190.5	2139.9	2069.6	2052.7	2010.6	1968.4	1954.3	1971.2
17.5°	3410.9	2899.1	2384.5	2210.2	2128.7	2049.9	2030.2	1976.8	1962.7	1920.6	1886.8
20°	3655.5	3039.7	2418.3	2227.1	2086.5	2007.7	1957.1	1903.7	1855.9	1830.6	1841.8
22.5°	3818.6	3112.8	2435.2	2193.3	2024.6	1951.5	1844.6	1808.1	1740.6	1712.5	1690.0
25°	4085.8	3202.8	2393.0	2100.5	1914.9	1796.8	1701.2	1650.6	1602.8	1566.3	1555.0
27.5°	4153.3	3270.3	2294.6	1943.1	1740.6	1616.9	1535.3	1473.5	1442.5	1386.3	1375.0
30°	4350.1	3202.8	2148.3	1751.9	1574.7	1448.2	1366.6	1321.6	1248.5	1234.5	1203.5
32.5°	4476.6	3222.5	1962.7	1566.3	1383.5	1271.0	1217.6	1172.6	1152.9	1085.4	1068.5
35°	4687.5	3155.0	1774.3	1394.7	1226.0	1138.8	1093.9	1079.8	1015.1	984.2	956.1
37.5°	4822.5	3115.7	1585.9	1200.7	1054.5	1017.9	1032.0	972.9	894.2	835.2	815.5
40°	5058.7	3101.6	1372.2	1040.4	936.4	927.9	972.9	860.5	717.0	666.4	638.3
42.5°	5399.0	3006.0	1206.3	897.0	843.6	880.1	888.6	717.0	635.5	593.3	573.6
45°	5725.2	3025.7	1043.2	742.4	733.9	787.3	767.7	607.4	559.6	528.6	545.5
47.5°	6352.2	3124.1	883.0	618.6	660.8	711.4	596.1	542.7	497.7	475.2	478.0
50°	7322.3	3219.7	742.4	565.2	624.3	643.9	511.8	492.1	489.3	444.3	441.5
52.5°	7904.4	3183.1	717.0	632.7	669.2	643.9	556.8	542.7	520.2	500.5	478.0
55°	8829.6	3290.0	770.5	739.5	759.2	618.6	624.3	618.6	601.8	551.1	565.2
57.5°	9566.3	3360.3	840.8	826.7	815.5	643.9	652.4	655.2	643.9	621.4	641.1
60°	10578.6	3500.9	913.9	916.7	919.5	700.2	714.2	731.1	728.3	719.9	725.5
62.5°	11200.0	3436.2	995.4	1040.4	1026.4	815.5	812.7	823.9	823.9	838.0	846.4
65°	11107.2	3197.2	1037.6	1150.1	1077.0	899.8	899.8	905.5	908.3	936.4	939.2
67°	10550.5	2769.8	1015.1	1167.0	1077.0	933.6	933.6	939.2	919.5	992.6	970.1
67.5°	10291.8	2643.2	995.4	1152.9	1068.5	930.8	930.8	933.6	916.7	987.0	964.5
70°	8950.5	1962.7	857.6	1020.7	989.8	905.5	905.5	888.6	874.5	967.3	947.6
72.5°	7640.1	1425.7	688.9	868.9	894.2	871.7	877.3	835.2	795.8	860.5	843.6
75°	5851.7	1048.9	537.1	669.2	756.4	815.5	852.0	745.2	694.6	711.4	680.5
77.5°	3264.7	683.3	424.6	494.9	576.5	759.2	818.3	672.1	568.0	548.3	548.3
80°	1107.9	399.3	312.1	368.4	396.5	672.1	764.9	545.5	447.1	427.4	413.4
82.5°	419.0	244.6	213.7	253.1	253.1	531.5	624.3	419.0	337.4	435.9	444.3
85°	191.2	146.2	140.6	146.2	146.2	326.2	441.5	272.8	303.7	261.5	230.6
87.5°	75.9	70.3	64.7	61.9	50.6	56.2	151.8	73.1	137.8	36.6	33.7
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)