

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: P477134

Luminaire Tested: **IFLD-L-SA8B-827-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477134
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-827-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (128) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

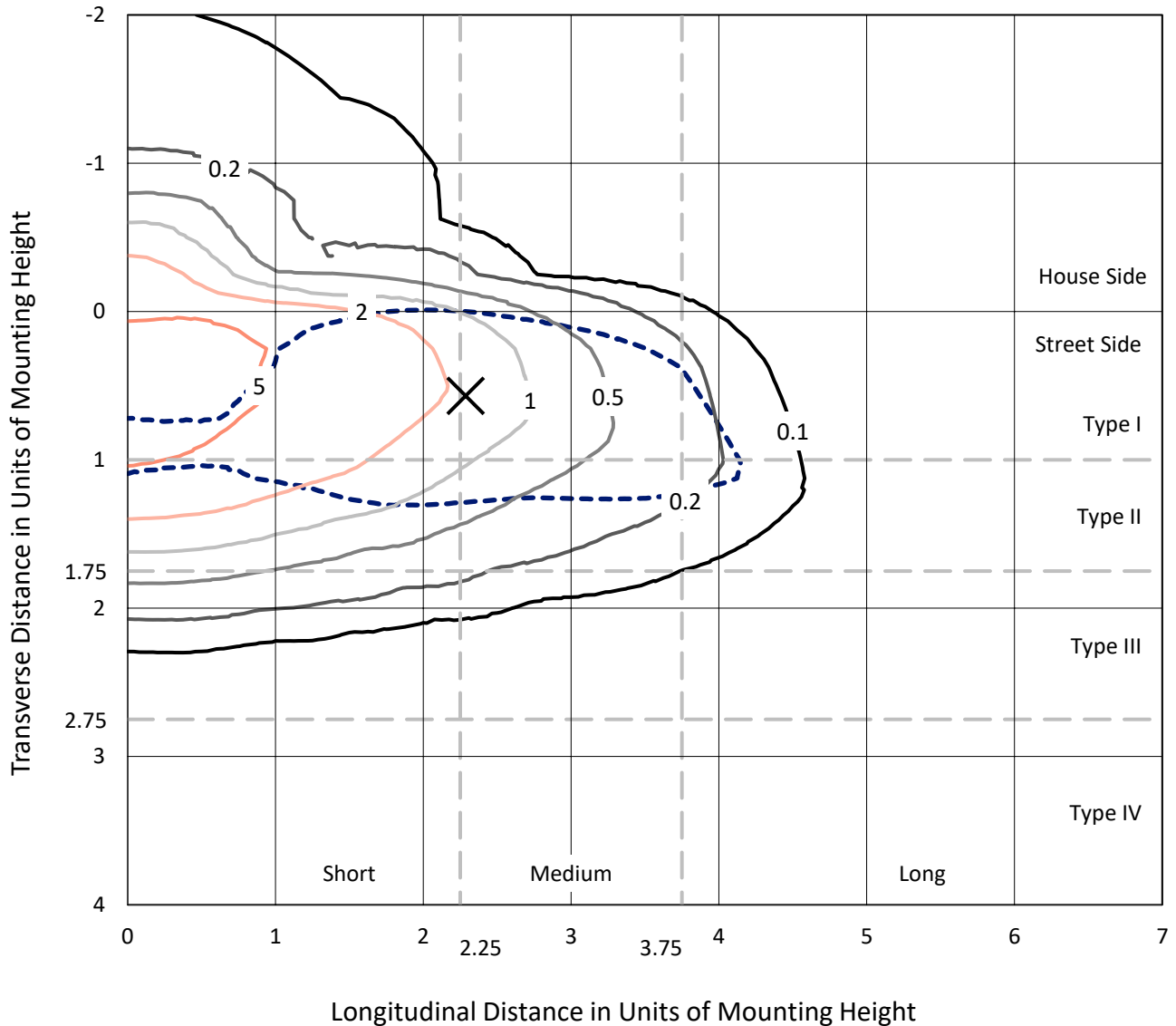
Lumens per Lamp: N/A
Luminaire Lumens: 30085.7 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 320
Input Voltage (V): 120
Input Current (A_{in}): 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

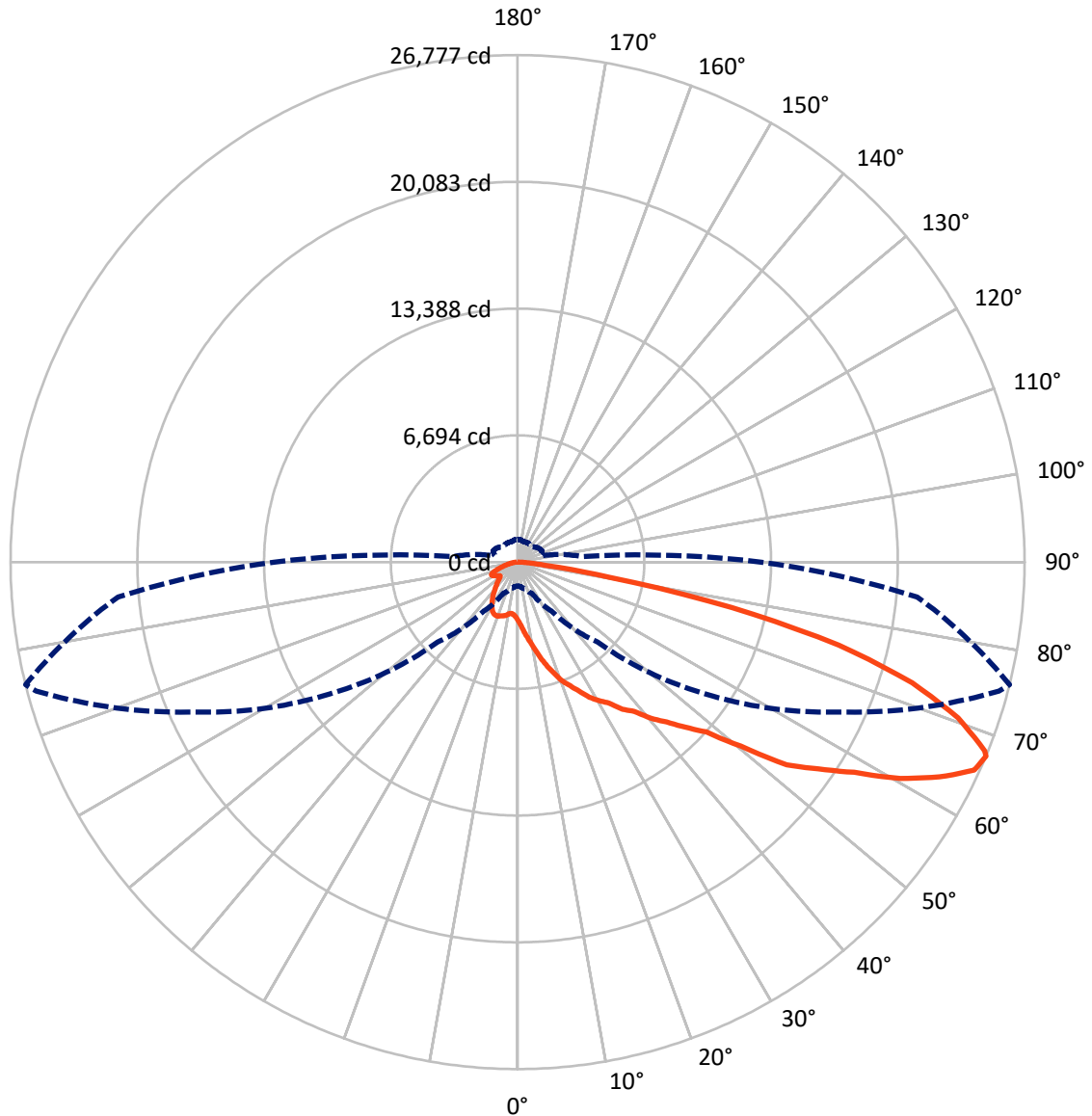
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8 fc
 Type II - 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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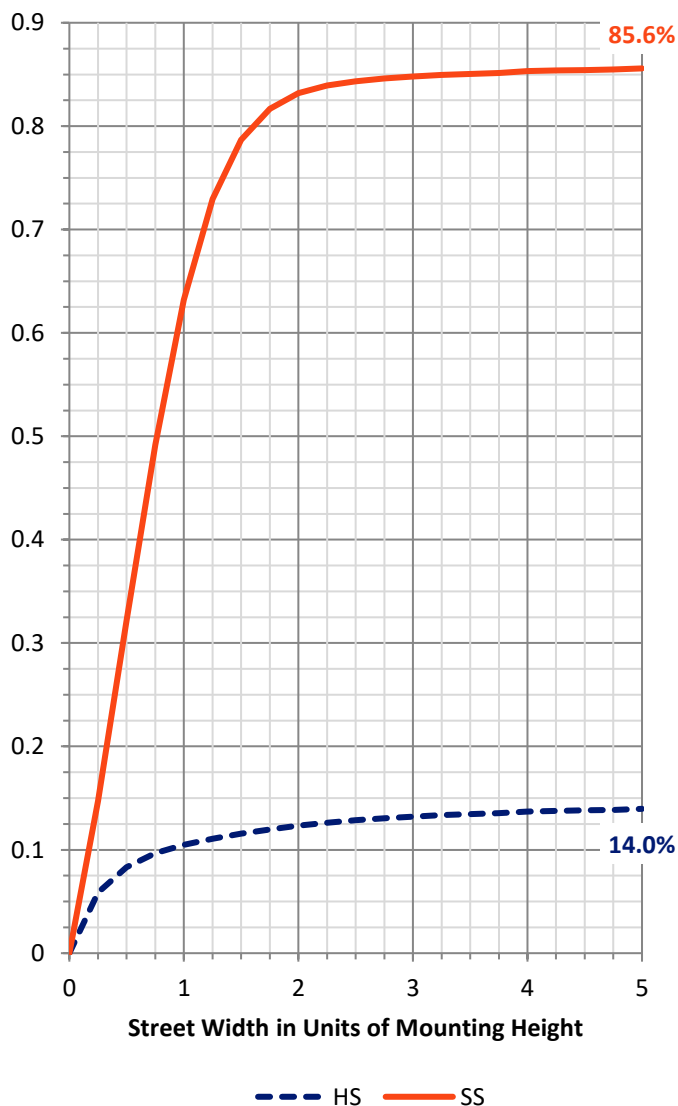
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4280.1	0.0	4280.1
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	25805.7	0.0	25805.7
	% Fixture	85.8	0.0	85.8
Total	Lumens	30085.7	0.0	30085.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	356.6	1.2
10°-20°	1337.6	4.4
20°-30°	2486.7	8.3
30°-40°	3942.0	13.1
40°-50°	5452.2	18.1
50°-60°	6706.5	22.3
60°-70°	6240.7	20.7
70°-80°	3131.6	10.4
80°-90°	431.8	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°	30085.7	100.0
0°-180°	30085.7	100.0

Coefficient of Utilization



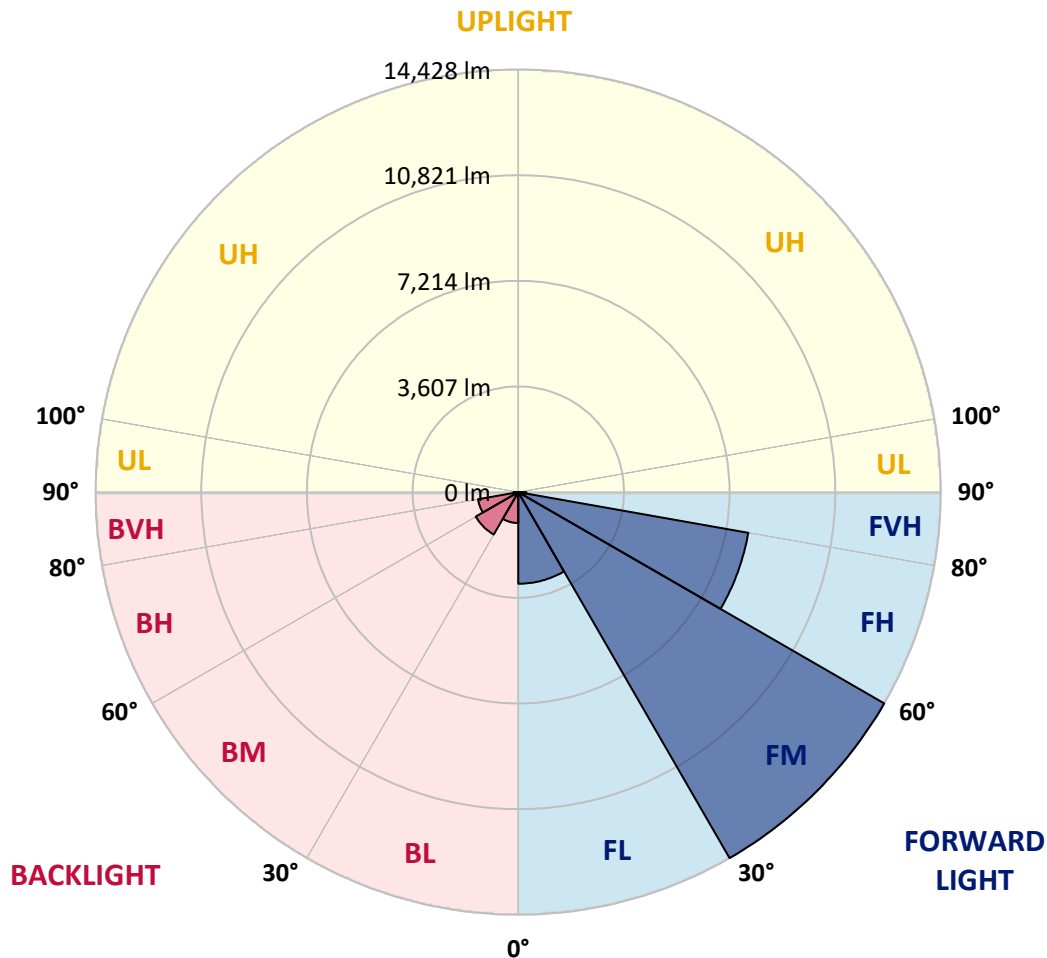
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3126.9	10.4			
FM (30°-60°)	14428.2	48.0			
FH (60°-80°)	7975.5	26.5			G4/12000
FVH (80°-90°)	275.1	0.9			G3/500
BL (0°-30°)	1054.0	3.5	B3/2500		
BM (30°-60°)	1672.6	5.6	B2/2500		
BH (60°-80°)	1396.8	4.6	B3/2500		G3/2500
BVH (80°-90°)	156.7	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-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3078.8	3078.8	3078.8	3078.8	3078.8	3078.8	3078.8	3078.8	3078.8	3078.8	3078.8
2.5°	4271.9	4220.5	4169.1	4059.4	4021.7	3918.8	3730.2	3521.1	3349.7	3325.7	3205.7
5°	5300.5	5225.1	5207.9	5146.2	4950.8	4751.9	4443.4	4107.4	3689.1	3720.0	3308.5
7.5°	6071.9	6027.3	5934.8	5876.5	5759.9	5495.9	5177.1	4731.4	4199.9	4097.1	3538.2
10°	6654.8	6593.1	6589.6	6538.2	6476.5	6205.6	5962.2	5362.2	4679.9	4539.4	3819.4
12.5°	6949.6	6939.3	7121.0	7121.0	7097.0	6983.9	6565.6	6017.1	5135.9	5087.9	4145.1
15°	7268.5	7182.8	7340.5	7460.5	7522.2	7580.5	7234.2	6654.8	5718.8	5626.2	4494.8
17.5°	7268.5	7261.6	7419.3	7618.2	7940.5	8015.9	7827.3	7241.0	6202.2	6133.6	4878.8
20°	7145.0	7244.5	7354.2	7621.6	7971.3	8276.5	8331.3	7841.0	6737.1	6682.2	5314.2
22.5°	7721.0	7625.0	7738.2	7841.0	8111.9	8574.7	8725.6	8369.0	7299.3	7090.2	5708.5
25°	8687.9	8622.7	8540.5	8389.6	8502.7	8705.0	8934.7	8759.9	7779.3	7546.2	6089.1
27.5°	9630.7	9634.2	9455.9	9126.7	8883.3	8924.5	9195.3	9102.7	8183.9	8081.0	6349.6
30°	10971.3	10889.0	10690.1	10244.4	9767.9	9377.0	9332.4	9421.6	8698.2	8499.3	6723.3
32.5°	11975.8	11993.0	11711.8	11070.7	10419.3	10100.4	9709.6	9747.3	9023.9	8876.5	7021.6
35°	12788.4	12767.8	12569.0	12037.6	11266.1	10882.1	10354.1	10138.2	9781.6	9548.4	7477.6
37.5°	13666.1	13498.1	13175.8	12575.8	12082.1	11550.7	11036.4	10549.6	10285.6	10004.4	7868.5
40°	14019.2	14019.2	13587.2	13313.0	12726.7	12325.5	11993.0	11091.3	10899.3	10844.4	8369.0
42.5°	13769.0	13923.2	13745.0	13433.0	13193.0	12685.5	12596.4	11653.6	11657.0	11547.3	8969.0
45°	13745.0	13532.4	13385.0	13463.8	13350.7	13323.3	13549.5	12431.8	12452.4	12438.7	9774.7
47.5°	13055.8	12959.8	13179.3	13309.5	13402.1	13827.2	14478.7	13361.0	13508.4	13405.5	10703.9
50°	12370.1	12353.0	12490.1	12963.3	13364.4	14063.8	15363.2	14794.1	15277.5	15270.7	12387.3
52.5°	10491.3	10673.0	11211.3	12212.4	13203.3	14386.1	16031.8	16624.9	17547.2	17797.5	13782.7
55°	8694.7	8598.7	9394.2	10847.9	12500.4	14512.9	16779.2	17725.5	19083.2	19264.9	15215.8
57.5°	6764.5	6942.8	7570.2	8965.6	11046.7	13885.5	17327.8	18812.3	20818.0	20958.6	16878.6
60°	5046.8	5070.8	5759.9	6884.5	9113.0	12469.5	17506.1	19926.6	22806.6	23207.7	18620.3
62.5°	3174.8	3318.8	3843.4	4950.8	6860.5	10487.9	16707.2	20602.0	24891.1	24997.4	20375.7
65°	1710.8	1803.4	2197.7	2893.7	4793.1	7933.6	14588.4	20197.4	25871.7	26502.5	21157.4
67°	1265.1	1282.3	1464.0	1848.0	3205.7	5972.5	12164.4	18733.5	26317.4	26776.8	21188.3
67.5°	1186.3	1210.3	1354.3	1659.4	2842.2	5499.4	11530.1	18212.3	26118.5	26612.2	20948.3
70°	1014.8	1021.7	1056.0	1141.7	1594.3	3308.5	7851.3	14924.4	24208.8	24682.0	19264.9
72.5°	901.7	908.6	922.3	939.4	1080.0	1913.1	4775.9	11485.6	21040.9	21795.1	16621.5
75°	792.0	816.0	822.8	809.1	918.8	1244.6	2540.5	8441.0	17163.2	17530.1	12925.5
77.5°	672.0	682.3	696.0	709.7	819.4	929.1	1220.6	5698.2	11780.4	11557.6	6990.8
80°	565.7	569.1	579.4	589.7	709.7	709.7	692.6	3078.8	5146.2	4919.9	2362.3
82.5°	404.6	428.6	452.6	480.0	589.7	476.6	452.6	1371.4	1628.5	1549.7	798.8
85°	157.7	192.0	298.3	329.1	373.7	257.1	301.7	593.1	678.8	672.0	298.3
87.5°	27.4	30.9	82.3	126.9	137.1	89.1	144.0	212.6	253.7	274.3	109.7
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°	3078.8	3078.8	3078.8	3078.8	3078.8	3078.8	3078.8	3078.8	3078.8	3078.8	3078.8
2.5°	3106.2	3000.0	2873.1	2746.2	2664.0	2533.7	2523.4	2444.5	2434.3	2406.8	2420.5
5°	3130.2	3003.4	2746.2	2544.0	2451.4	2376.0	2393.1	2358.8	2348.5	2331.4	2304.0
7.5°	3318.8	3068.5	2684.5	2509.7	2441.1	2406.8	2406.8	2365.7	2334.8	2355.4	2376.0
10°	3442.2	3099.4	2732.5	2557.7	2502.8	2427.4	2454.8	2403.4	2420.5	2379.4	2379.4
12.5°	3641.1	3274.2	2832.0	2629.7	2540.5	2472.0	2499.4	2441.1	2427.4	2430.8	2420.5
15°	3908.5	3390.8	2876.5	2670.8	2609.1	2523.4	2502.8	2451.4	2400.0	2382.8	2403.4
17.5°	4158.8	3534.8	2907.4	2694.8	2595.4	2499.4	2475.4	2410.3	2393.1	2341.7	2300.5
20°	4457.1	3706.2	2948.5	2715.4	2544.0	2448.0	2386.3	2321.1	2262.8	2232.0	2245.7
22.5°	4655.9	3795.4	2969.1	2674.3	2468.5	2379.4	2249.1	2204.5	2122.3	2088.0	2060.5
25°	4981.6	3905.1	2917.7	2561.1	2334.8	2190.8	2074.3	2012.5	1954.3	1909.7	1896.0
27.5°	5063.9	3987.4	2797.7	2369.1	2122.3	1971.4	1872.0	1796.5	1758.8	1690.3	1676.5
30°	5303.9	3905.1	2619.4	2136.0	1920.0	1765.7	1666.3	1611.4	1522.3	1505.1	1467.4
32.5°	5458.2	3929.1	2393.1	1909.7	1686.8	1549.7	1484.6	1429.7	1405.7	1323.4	1302.8
35°	5715.4	3846.8	2163.4	1700.5	1494.8	1388.6	1333.7	1316.6	1237.7	1200.0	1165.7
37.5°	5879.9	3798.8	1933.7	1464.0	1285.7	1241.1	1258.3	1186.3	1090.3	1018.3	994.3
40°	6167.9	3781.7	1673.1	1268.6	1141.7	1131.4	1186.3	1049.1	874.3	812.6	778.3
42.5°	6582.8	3665.1	1470.8	1093.7	1028.6	1073.1	1083.4	874.3	774.8	723.4	699.4
45°	6980.5	3689.1	1272.0	905.1	894.8	960.0	936.0	740.6	682.3	644.6	665.1
47.5°	7745.0	3809.1	1076.6	754.3	805.7	867.4	726.8	661.7	606.8	579.4	582.8
50°	8927.9	3925.7	905.1	689.1	761.1	785.1	624.0	600.0	596.6	541.7	538.3
52.5°	9637.6	3881.1	874.3	771.4	816.0	785.1	678.8	661.7	634.3	610.3	582.8
55°	10765.6	4011.4	939.4	901.7	925.7	754.3	761.1	754.3	733.7	672.0	689.1
57.5°	11663.8	4097.1	1025.1	1008.0	994.3	785.1	795.4	798.8	785.1	757.7	781.7
60°	12898.1	4268.5	1114.3	1117.7	1121.1	853.7	870.8	891.4	888.0	877.7	884.6
62.5°	13655.8	4189.7	1213.7	1268.6	1251.4	994.3	990.8	1004.6	1004.6	1021.7	1032.0
65°	13542.7	3898.2	1265.1	1402.3	1313.1	1097.1	1097.1	1104.0	1107.4	1141.7	1145.1
67°	12863.8	3377.1	1237.7	1422.8	1313.1	1138.3	1138.3	1145.1	1121.1	1210.3	1182.8
67.5°	12548.4	3222.8	1213.7	1405.7	1302.8	1134.8	1134.8	1138.3	1117.7	1203.4	1176.0
70°	10913.0	2393.1	1045.7	1244.6	1206.8	1104.0	1104.0	1083.4	1066.3	1179.4	1155.4
72.5°	9315.3	1738.3	840.0	1059.4	1090.3	1062.8	1069.7	1018.3	970.3	1049.1	1028.6
75°	7134.8	1278.8	654.8	816.0	922.3	994.3	1038.8	908.6	846.8	867.4	829.7
77.5°	3980.5	833.1	517.7	603.4	702.8	925.7	997.7	819.4	692.6	668.6	668.6
80°	1350.8	486.9	380.6	449.1	483.4	819.4	932.6	665.1	545.1	521.1	504.0
82.5°	510.9	298.3	260.6	308.6	308.6	648.0	761.1	510.9	411.4	531.4	541.7
85°	233.1	178.3	171.4	178.3	178.3	397.7	538.3	332.6	370.3	318.9	281.1
87.5°	92.6	85.7	78.9	75.4	61.7	68.6	185.1	89.1	168.0	44.6	41.1
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)