

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: P477019

Luminaire Tested: **IFLD-L-SA8D-740-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477019
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-740-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

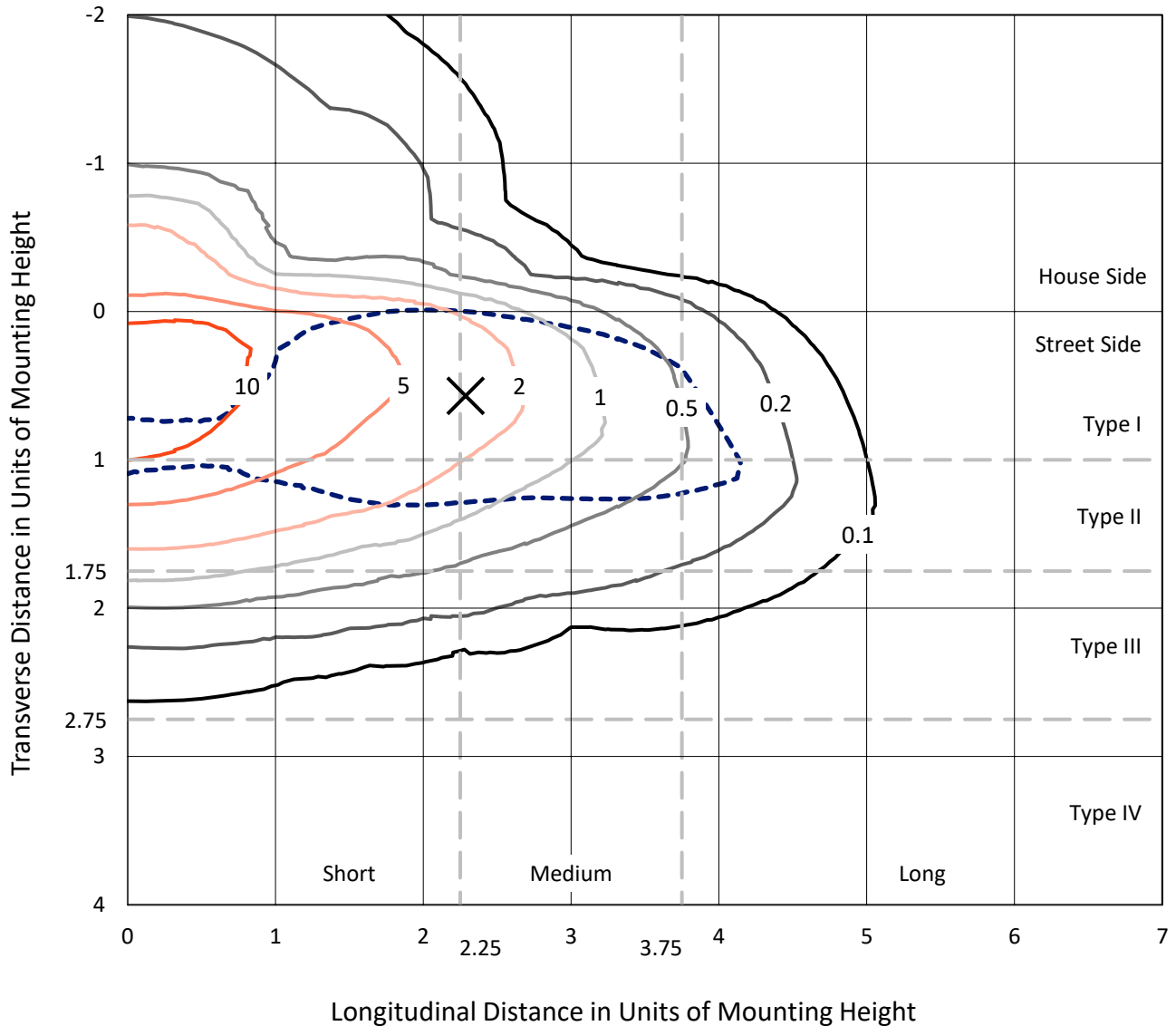
Lumens per Lamp: N/A
Luminaire Lumens: 56061 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 488.3
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

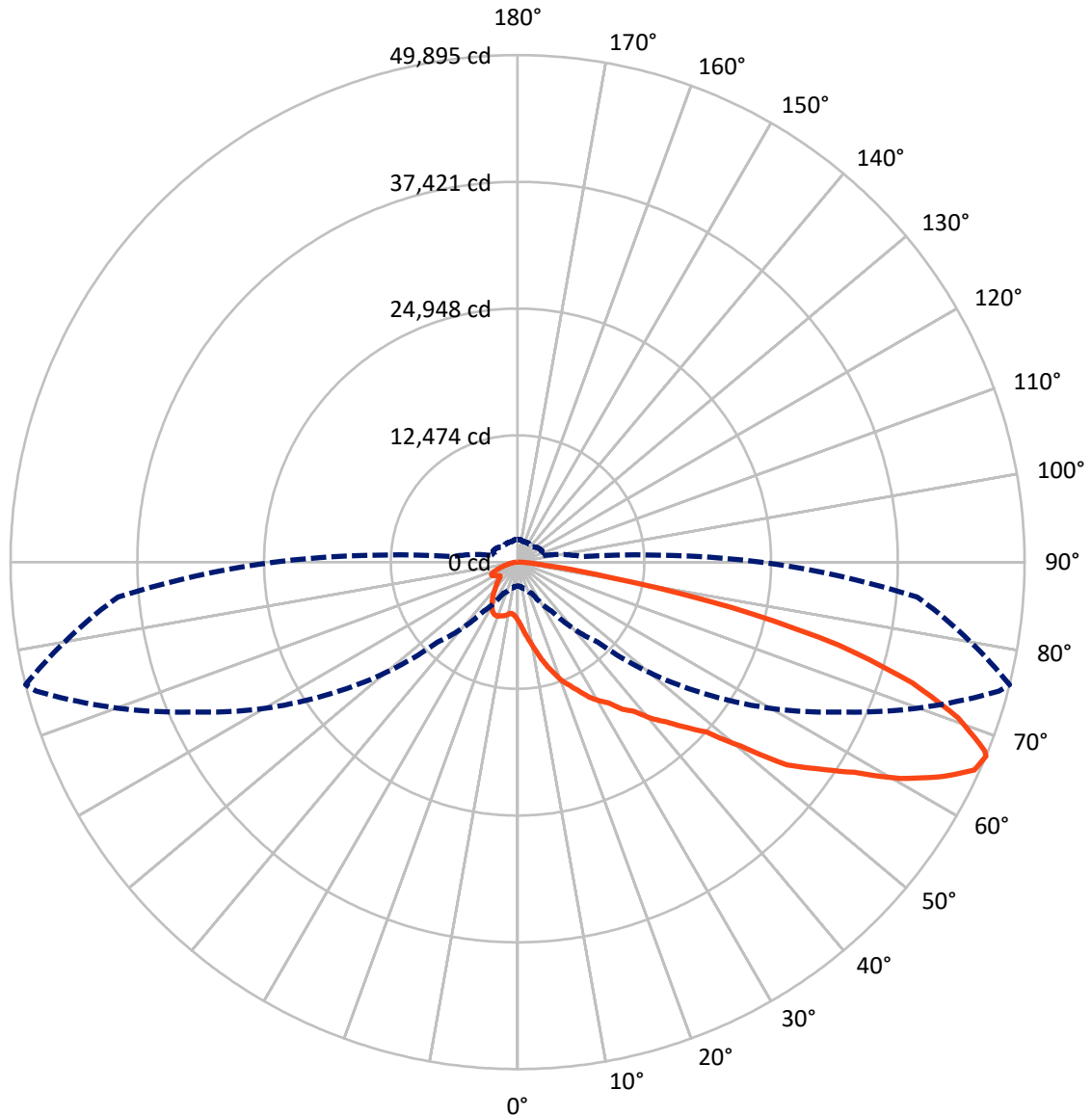
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 14.9 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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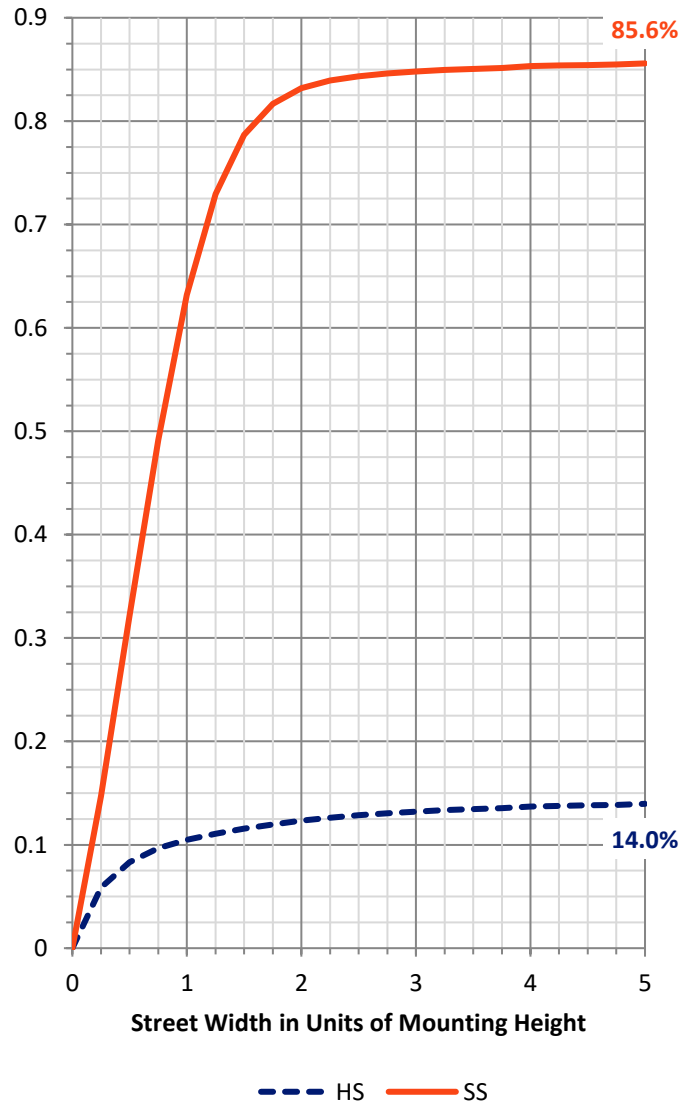
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7975.4	0.0	7975.4
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	48085.6	0.0	48085.6
	% Fixture	85.8	0.0	85.8
Total	Lumens	56061.0	0.0	56061.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	664.5	1.2
10°-20°	2492.4	4.4
20°-30°	4633.7	8.3
30°-40°	7345.5	13.1
40°-50°	10159.4	18.1
50°-60°	12496.7	22.3
60°-70°	11628.8	20.7
70°-80°	5835.3	10.4
80°-90°	804.6	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°	56061.0	100.0
0°-180°	56061.0	100.0

Coefficient of Utilization



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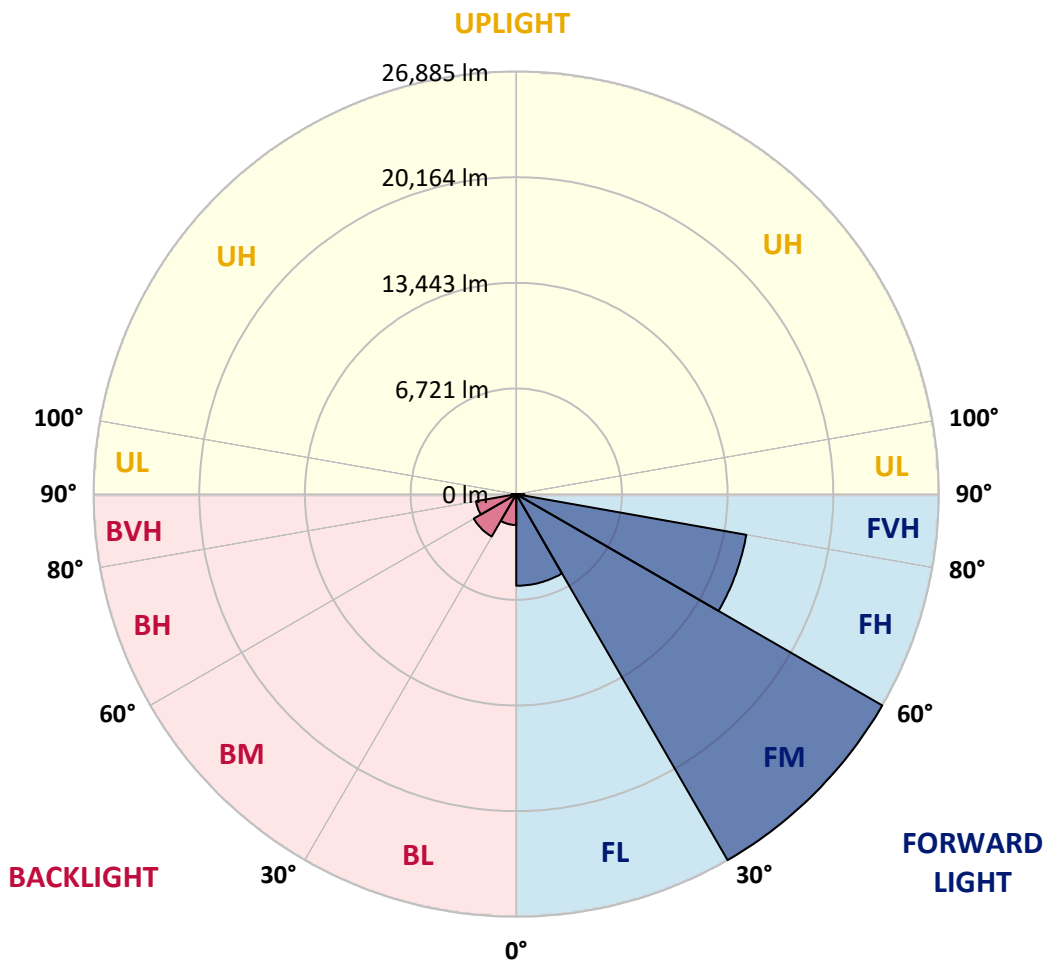
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5826.6	10.4			
FM (30°-60°)	26885.0	48.0			
FH (60°-80°)	14861.3	26.5			G5
FVH (80°-90°)	512.6	0.9			G4/750
BL (0°-30°)	1964.0	3.5	B3/2500		
BM (30°-60°)	3116.6	5.6	B3/5000		
BH (60°-80°)	2602.8	4.6	B4/5000		G4/5000
BVH (80°-90°)	292.0	0.5			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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5737.0	5737.0	5737.0	5737.0	5737.0	5737.0	5737.0	5737.0	5737.0	5737.0	5737.0
2.5°	7960.2	7864.4	7768.6	7564.1	7493.9	7302.2	6950.8	6561.1	6241.7	6197.0	5973.4
5°	9876.8	9736.3	9704.3	9589.3	9225.2	8854.6	8279.7	7653.6	6874.2	6931.7	6165.0
7.5°	11314.2	11231.2	11058.7	10950.1	10732.9	10241.0	9646.8	8816.3	7826.1	7634.4	6593.1
10°	12400.3	12285.3	12278.9	12183.1	12068.1	11563.4	11109.8	9991.8	8720.5	8458.5	7116.9
12.5°	12949.7	12930.6	13269.2	13269.2	13224.4	13013.6	12234.2	11212.0	9570.2	9480.7	7723.8
15°	13543.9	13384.2	13678.0	13901.6	14016.6	14125.2	13480.0	12400.3	10656.2	10483.7	8375.5
17.5°	13543.9	13531.1	13825.0	14195.5	14796.0	14936.6	14585.2	13492.8	11557.0	11429.2	9091.0
20°	13313.9	13499.2	13703.6	14201.9	14853.5	15422.1	15524.4	14610.8	12553.6	12451.4	9902.4
22.5°	14387.2	14208.3	14419.1	14610.8	15115.5	15977.9	16259.0	15594.6	13601.4	13211.7	10637.1
25°	16188.8	16067.4	15914.1	15633.0	15843.8	16220.7	16648.7	16322.9	14495.8	14061.4	11346.2
27.5°	17945.6	17952.0	17619.8	17006.5	16552.9	16629.6	17134.3	16961.8	15249.6	15058.0	11831.7
30°	20443.6	20290.3	19919.7	19089.2	18201.2	17472.9	17389.8	17555.9	16207.9	15837.4	12528.1
32.5°	22315.5	22347.4	21823.5	20628.9	19415.0	18820.9	18092.6	18162.9	16814.9	16540.1	13083.9
35°	23829.6	23791.2	23420.7	22430.5	20993.0	20277.5	19293.6	18891.2	18226.7	17792.3	13933.6
37.5°	25465.0	25152.0	24551.5	23433.5	22513.5	21523.3	20565.0	19657.8	19165.9	18642.0	14661.9
40°	26123.1	26123.1	25318.1	24807.0	23714.6	22967.1	22347.4	20667.2	20309.4	20207.2	15594.6
42.5°	25656.7	25944.2	25612.0	25030.6	24583.4	23637.9	23471.8	21714.9	21721.3	21516.9	16712.6
45°	25612.0	25215.9	24941.2	25088.1	24877.3	24826.2	25247.8	23165.1	23203.5	23177.9	18214.0
47.5°	24327.9	24149.0	24557.9	24800.6	24973.1	25765.3	26979.2	24896.5	25171.2	24979.5	19945.3
50°	23050.1	23018.2	23273.7	24155.4	24902.8	26206.1	28627.4	27566.9	28467.7	28454.9	23082.1
52.5°	19549.2	19887.8	20890.8	22756.3	24602.6	26806.7	29873.2	30978.4	32697.0	33163.3	25682.3
55°	16201.5	16022.7	17504.8	20213.6	23292.9	27043.0	31265.9	33029.2	35559.1	35897.7	28352.7
57.5°	12604.8	12937.0	14106.1	16706.2	20584.1	25873.9	32288.1	35054.4	38791.7	39053.6	31451.2
60°	9404.1	9448.8	10732.9	12828.4	16981.0	23235.4	32620.3	37130.7	42497.1	43244.6	34696.6
62.5°	5915.9	6184.2	7161.6	9225.2	12783.6	19542.8	31131.8	38389.2	46381.4	46579.4	37967.6
65°	3187.9	3360.4	4095.1	5392.0	8931.3	14783.3	27183.6	37635.4	48208.5	49384.0	39424.2
67°	2357.4	2389.3	2727.9	3443.5	5973.4	11129.0	22666.8	34907.4	49039.1	49895.1	39481.7
67.5°	2210.5	2255.2	2523.5	3092.1	5296.2	10247.3	21484.9	33936.4	48668.5	49588.5	39034.5
70°	1891.0	1903.8	1967.7	2127.4	2970.7	6165.0	14629.9	27809.7	45110.1	45991.7	35897.7
72.5°	1680.2	1693.0	1718.5	1750.5	2012.4	3564.9	8899.4	21401.9	39207.0	40612.5	30972.0
75°	1475.8	1520.5	1533.3	1507.7	1712.2	2319.1	4734.0	15728.8	31981.4	32665.0	24085.1
77.5°	1252.2	1271.3	1296.9	1322.4	1526.9	1731.3	2274.3	10617.9	21951.3	21536.0	13026.4
80°	1054.1	1060.5	1079.7	1098.8	1322.4	1322.4	1290.5	5737.0	9589.3	9167.7	4401.8
82.5°	753.9	798.6	843.3	894.4	1098.8	888.0	843.3	2555.4	3034.6	2887.7	1488.5
85°	293.9	357.8	555.8	613.3	696.4	479.1	562.2	1105.2	1264.9	1252.2	555.8
87.5°	51.1	57.5	153.3	236.4	255.5	166.1	268.3	396.1	472.8	511.1	204.4
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°	5737.0	5737.0	5737.0	5737.0	5737.0	5737.0	5737.0	5737.0	5737.0	5737.0	5737.0
2.5°	5788.1	5590.0	5353.7	5117.3	4964.0	4721.2	4702.0	4555.1	4535.9	4484.8	4510.4
5°	5832.8	5596.4	5117.3	4740.4	4567.9	4427.3	4459.3	4395.4	4376.2	4344.3	4293.2
7.5°	6184.2	5717.8	5002.3	4676.5	4548.7	4484.8	4484.8	4408.1	4350.7	4389.0	4427.3
10°	6414.2	5775.3	5091.7	4765.9	4663.7	4523.1	4574.3	4478.4	4510.4	4433.7	4433.7
12.5°	6784.7	6101.1	5277.0	4900.1	4734.0	4606.2	4657.3	4548.7	4523.1	4529.5	4510.4
15°	7283.0	6318.3	5360.1	4976.7	4861.7	4702.0	4663.7	4567.9	4472.0	4440.1	4478.4
17.5°	7749.4	6586.7	5417.6	5021.5	4836.2	4657.3	4612.6	4491.2	4459.3	4363.4	4286.8
20°	8305.2	6906.1	5494.2	5059.8	4740.4	4561.5	4446.5	4325.1	4216.5	4159.0	4184.5
22.5°	8675.7	7072.2	5532.5	4983.1	4599.8	4433.7	4190.9	4107.9	3954.6	3890.7	3839.6
25°	9282.7	7276.6	5436.7	4772.3	4350.7	4082.3	3865.1	3750.1	3641.5	3558.5	3532.9
27.5°	9436.0	7430.0	5213.1	4414.5	3954.6	3673.5	3488.2	3347.6	3277.4	3149.6	3124.0
30°	9883.2	7276.6	4880.9	3980.1	3577.6	3290.1	3104.9	3002.7	2836.5	2804.6	2734.3
32.5°	10170.7	7321.4	4459.3	3558.5	3143.2	2887.7	2766.3	2664.1	2619.3	2466.0	2427.7
35°	10649.8	7168.0	4031.2	3168.8	2785.4	2587.4	2485.2	2453.2	2306.3	2236.0	2172.1
37.5°	10956.5	7078.6	3603.2	2727.9	2395.7	2312.7	2344.6	2210.5	2031.6	1897.4	1852.7
40°	11493.1	7046.7	3117.6	2363.8	2127.4	2108.2	2210.5	1954.9	1629.1	1514.1	1450.2
42.5°	12266.2	6829.4	2740.7	2038.0	1916.6	1999.6	2018.8	1629.1	1443.8	1348.0	1303.3
45°	13007.2	6874.2	2370.2	1686.6	1667.4	1788.8	1744.1	1379.9	1271.3	1201.1	1239.4
47.5°	14431.9	7097.8	2006.0	1405.5	1501.3	1616.3	1354.4	1233.0	1130.8	1079.7	1086.1
50°	16636.0	7315.0	1686.6	1284.1	1418.3	1463.0	1162.7	1118.0	1111.6	1009.4	1003.0
52.5°	17958.4	7231.9	1629.1	1437.4	1520.5	1463.0	1264.9	1233.0	1181.9	1137.2	1086.1
55°	20060.3	7474.7	1750.5	1680.2	1724.9	1405.5	1418.3	1405.5	1367.2	1252.2	1284.1
57.5°	21734.1	7634.4	1910.2	1878.3	1852.7	1463.0	1482.2	1488.5	1463.0	1411.9	1456.6
60°	24034.0	7953.8	2076.3	2082.7	2089.1	1590.8	1622.7	1661.0	1654.7	1635.5	1648.3
62.5°	25445.9	7806.9	2261.6	2363.8	2331.8	1852.7	1846.3	1871.9	1871.9	1903.8	1923.0
65°	25235.1	7263.9	2357.4	2612.9	2446.8	2044.4	2044.4	2057.1	2063.5	2127.4	2133.8
67°	23970.1	6292.8	2306.3	2651.3	2446.8	2121.0	2121.0	2133.8	2089.1	2255.2	2204.1
67.5°	23382.4	6005.3	2261.6	2619.3	2427.7	2114.6	2114.6	2121.0	2082.7	2242.4	2191.3
70°	20335.0	4459.3	1948.5	2319.1	2248.8	2057.1	2057.1	2018.8	1986.9	2197.7	2153.0
72.5°	17357.9	3239.0	1565.2	1974.1	2031.6	1980.5	1993.3	1897.4	1808.0	1954.9	1916.6
75°	13294.7	2383.0	1220.2	1520.5	1718.5	1852.7	1935.8	1693.0	1578.0	1616.3	1546.0
77.5°	7417.2	1552.4	964.7	1124.4	1309.7	1724.9	1859.1	1526.9	1290.5	1245.8	1245.8
80°	2517.1	907.2	709.1	836.9	900.8	1526.9	1737.7	1239.4	1015.8	971.1	939.1
82.5°	951.9	555.8	485.5	575.0	575.0	1207.4	1418.3	951.9	766.6	990.2	1009.4
85°	434.4	332.2	319.4	332.2	332.2	741.1	1003.0	619.7	690.0	594.1	523.9
87.5°	172.5	159.7	146.9	140.5	115.0	127.8	345.0	166.1	313.0	83.1	76.7
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)