

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: P476691

Luminaire Tested: **IFLD-S-SA6C-760-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476691
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-760-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (96) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

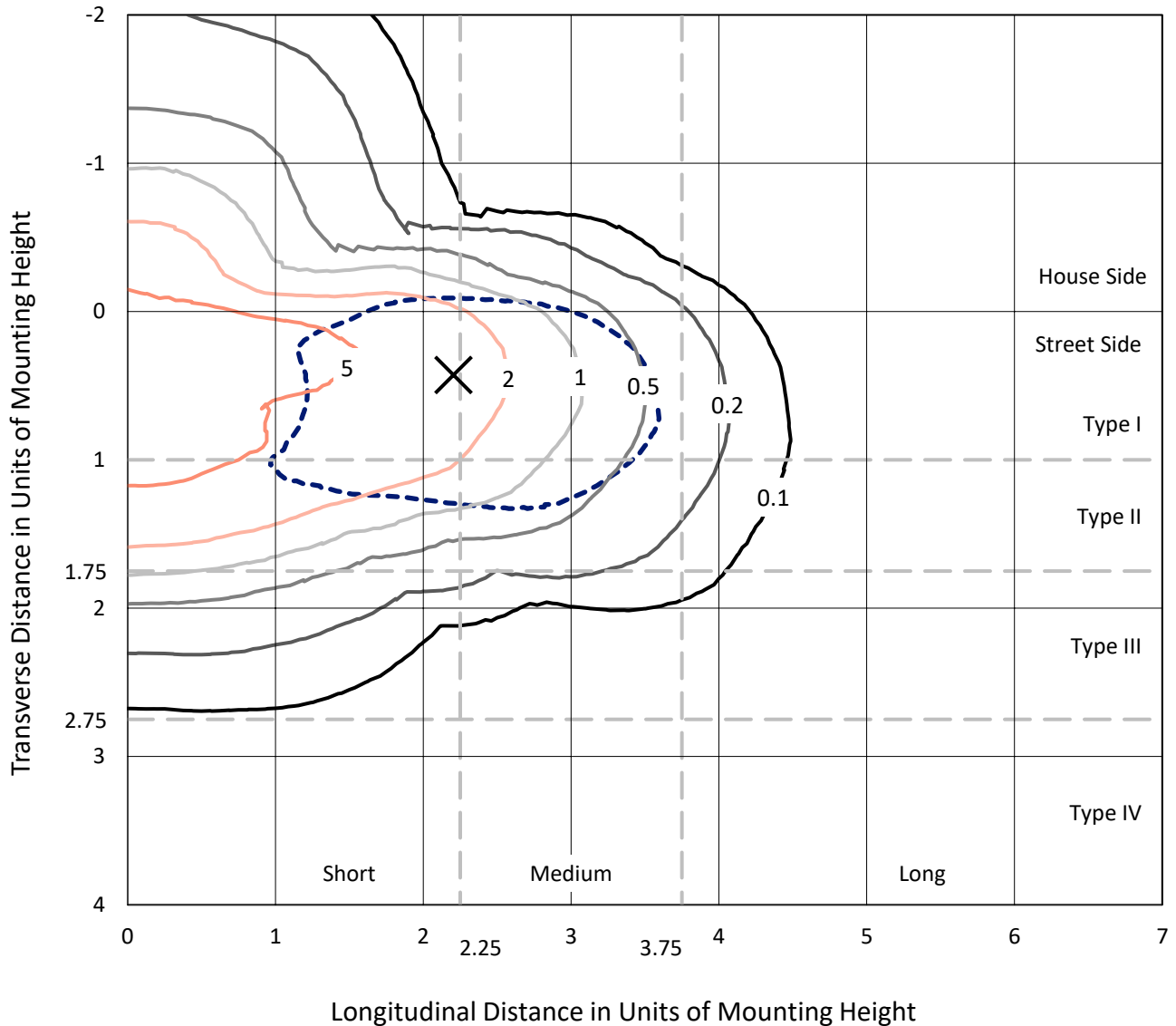
Lumens per Lamp: N/A
Luminaire Lumens: 42452.1 lumens
Efficiency: N/A
Efficacy: 132.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 321.5
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

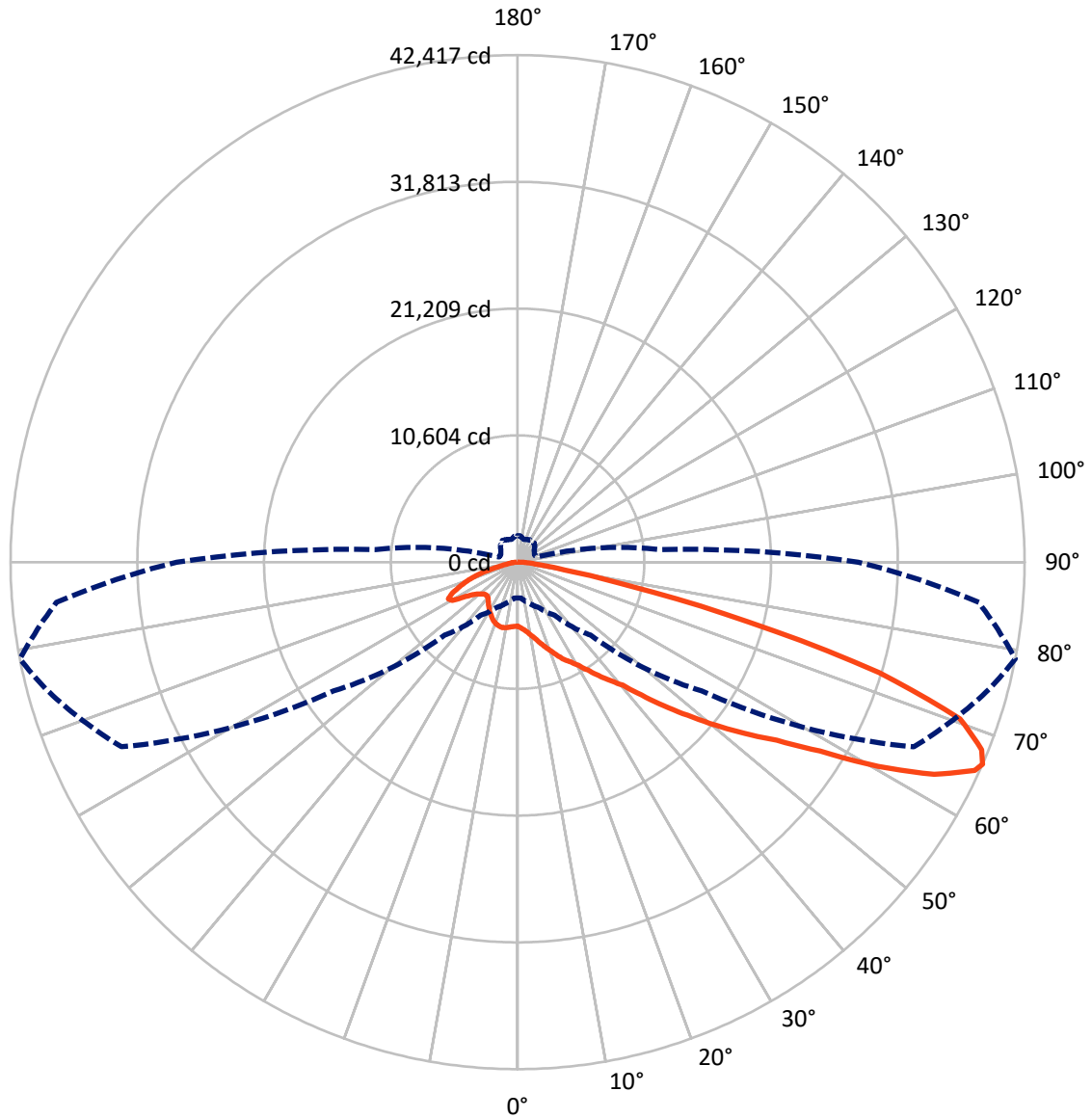
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.5 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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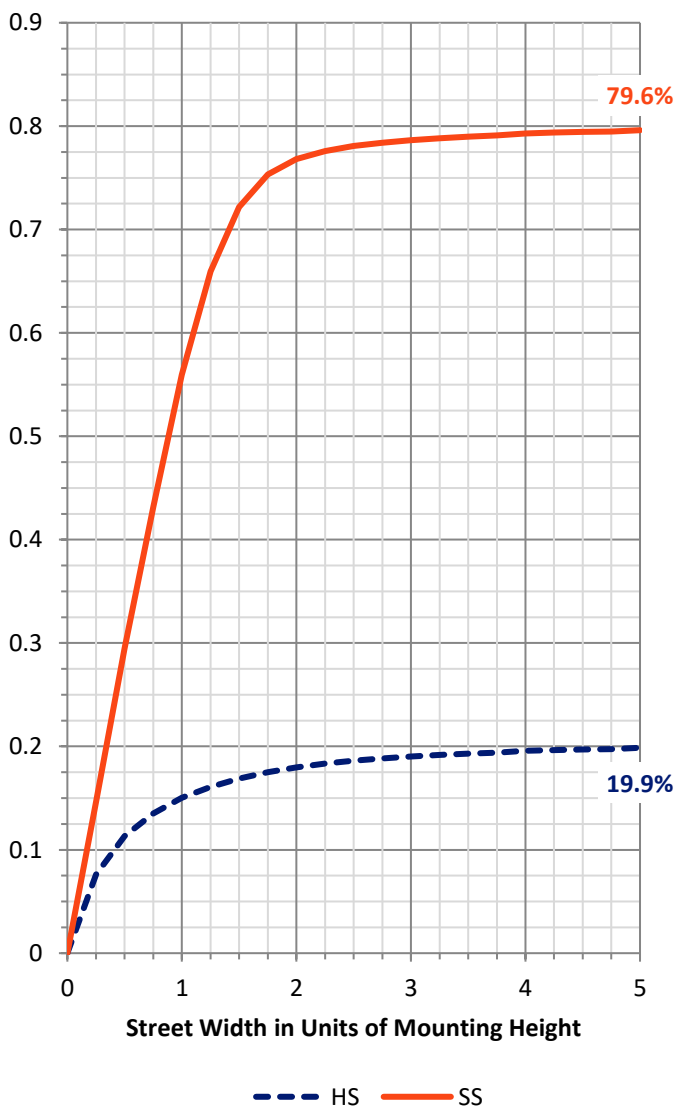
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8572.6	0.0	8572.6
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	33879.5	0.0	33879.5
	% Fixture	79.8	0.0	79.8
Total	Lumens	42452.1	0.0	42452.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	527.1	1.2
10°-20°	1627.7	3.8
20°-30°	2793.9	6.6
30°-40°	4316.0	10.2
40°-50°	6913.2	16.3
50°-60°	10321.9	24.3
60°-70°	10605.8	25.0
70°-80°	4701.4	11.1
80°-90°	645.1	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°	42452.1	100.0
0°-180°	42452.1	100.0



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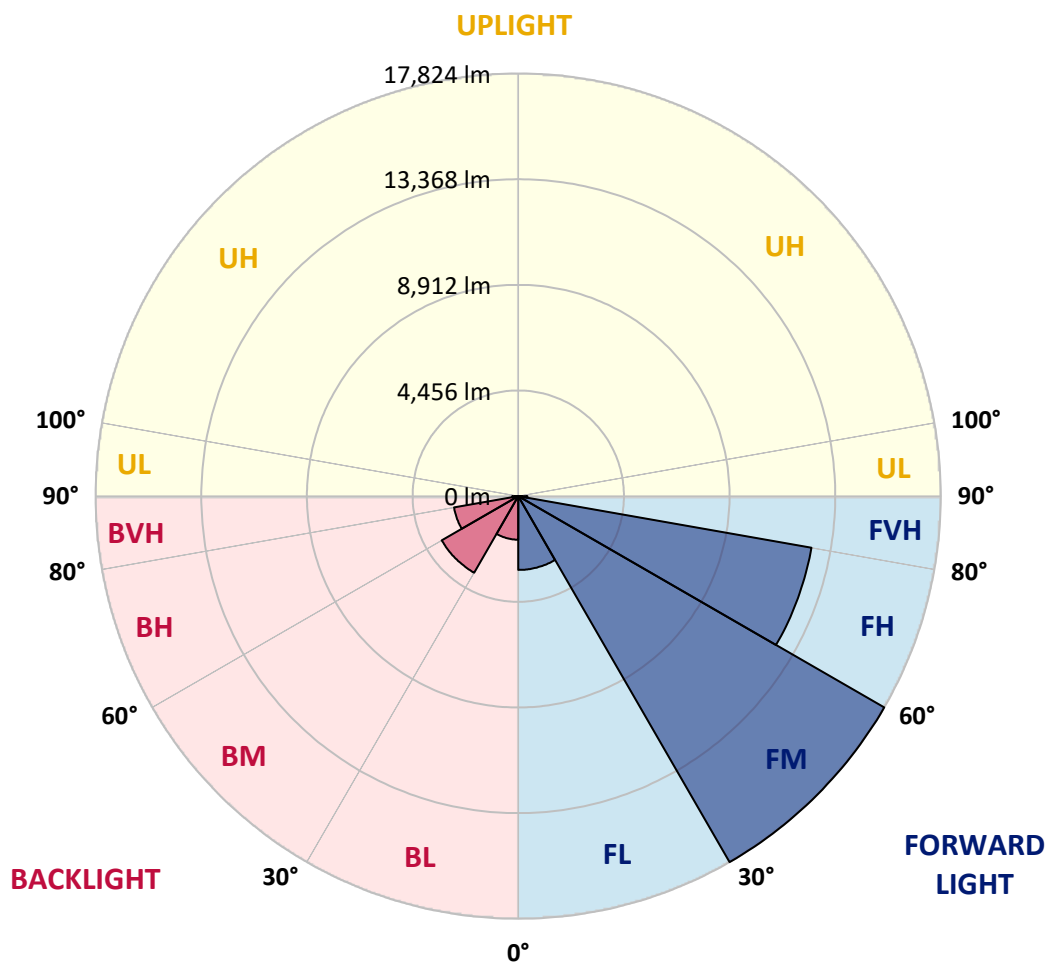
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3112.0	7.3			
FM	(30°-60°)	17824.2	42.0			
FH	(60°-80°)	12556.4	29.6			G5
FVH	(80°-90°)	386.9	0.9			G3/500
BL	(0°-30°)	1836.7	4.3	B3/2500		
BM	(30°-60°)	3727.0	8.8	B3/5000		
BH	(60°-80°)	2750.8	6.5	B4/5000		G4/5000
BVH	(80°-90°)	258.2	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°	5360.5	5360.5	5360.5	5360.5	5360.5	5360.5	5360.5	5360.5	5360.5	5360.5	5360.5
2.5°	5701.4	5706.1	5706.1	5687.4	5692.0	5706.1	5654.7	5542.6	5542.6	5523.9	5491.3
5°	6051.6	6028.2	5995.6	6000.2	5981.6	5981.6	5925.5	5818.1	5724.7	5687.4	5589.3
7.5°	6098.3	6121.6	6117.0	6173.0	6201.0	6201.0	6229.0	6140.3	6000.2	5911.5	5813.5
10°	6191.7	6131.0	6126.3	6257.1	6299.1	6397.1	6509.2	6462.5	6345.8	6219.7	6089.0
12.5°	6247.7	6285.1	6285.1	6350.4	6448.5	6593.2	6789.4	6878.1	6696.0	6565.2	6364.4
15°	6331.8	6280.4	6429.8	6485.9	6672.6	6775.4	7055.5	7284.3	7162.9	7004.2	6686.6
17.5°	6369.1	6336.4	6420.5	6523.2	6840.7	6994.8	7335.7	7653.2	7550.5	7447.8	7120.9
20°	6560.6	6555.9	6593.2	6677.3	6906.1	7209.6	7634.5	8073.5	8110.8	7924.0	7480.4
22.5°	7027.5	6966.8	6966.8	6934.1	7032.2	7345.0	7919.4	8526.4	8694.5	8475.0	7886.7
25°	7457.1	7541.1	7489.8	7340.4	7303.0	7466.4	8124.8	9007.4	9231.5	9026.0	8437.7
27.5°	8008.1	8036.1	8124.8	7924.0	7667.2	7718.6	8349.0	9278.2	9740.5	9465.0	8750.5
30°	8801.9	8750.5	8731.9	8507.7	8171.5	8101.5	8605.8	9675.1	10408.2	10020.6	9119.4
32.5°	9338.9	9465.0	9460.3	9152.1	8745.9	8591.8	8923.3	10048.6	11122.6	10763.1	9801.2
35°	10403.5	10534.3	10431.5	9978.6	9502.3	9194.1	9380.9	10534.3	11939.8	11659.6	10380.2
37.5°	11762.3	12070.5	11851.0	11015.2	10342.8	10006.6	10015.9	11061.9	12775.6	12546.8	11001.2
40°	12700.9	13116.5	12812.9	12028.5	11314.1	10996.5	10870.5	11687.6	13774.8	13532.0	11972.4
42.5°	13863.6	14209.1	14050.3	13275.2	12439.4	12168.6	11916.4	12733.6	15301.8	15189.7	13219.2
45°	15133.7	15297.1	15245.7	14755.4	13826.2	13732.8	13177.2	14111.0	17099.5	17146.2	14778.8
47.5°	16315.0	16403.7	16501.8	16146.9	15567.9	15647.3	14629.4	15586.6	18845.9	19154.0	16515.8
50°	16618.5	16922.1	17150.9	17389.0	17515.1	18052.1	16231.0	17398.3	20853.7	21451.4	18449.0
52.5°	16310.4	16287.0	16982.8	17729.9	18990.6	20115.9	18411.6	19649.0	22628.1	23809.5	20218.7
55°	14909.5	14862.8	15983.5	16973.4	19434.2	21264.6	21526.1	22646.8	24771.4	26307.6	22614.1
57.5°	12458.1	12168.6	13392.0	15016.9	18472.3	21390.7	24654.6	27096.8	28068.0	29819.0	26270.3
60°	8372.3	8250.9	9422.9	11360.7	14998.2	19602.3	26527.1	32667.4	32714.1	34684.6	31943.6
62.5°	5155.1	5178.4	5930.2	7382.4	10501.6	15539.9	25719.3	37117.4	37126.7	39101.9	36613.1
65°	3371.3	3385.3	3992.4	4795.5	6560.6	10538.9	21269.3	37467.6	40194.5	42029.6	38751.7
66°	3002.5	3007.1	3530.1	4183.8	5435.2	8624.5	18785.2	36557.0	40885.6	42417.2	38723.7
67.5°	2530.8	2591.5	3011.8	3516.1	4239.9	6196.3	14904.9	33923.5	40530.7	41875.5	37845.8
70°	1979.8	2012.5	2344.1	2857.7	3179.9	3586.1	8857.9	27652.4	37098.7	39279.3	34651.9
72.5°	1587.6	1615.6	1867.8	2320.7	2582.2	2362.7	4823.5	20064.6	29305.4	31630.8	27255.5
75°	1340.1	1344.8	1466.2	1825.8	2124.6	1774.4	2568.2	12878.3	18803.8	19887.1	16697.9
77.5°	1083.3	1102.0	1186.0	1391.5	1709.0	1396.2	1531.6	7214.3	9441.6	9521.0	7718.6
80°	882.5	891.9	943.2	1013.3	1302.8	1031.9	1036.6	3520.8	4048.4	3955.0	3137.9
82.5°	695.7	705.1	765.8	751.8	957.2	737.8	644.4	1695.0	1863.1	1825.8	1442.9
85°	392.2	392.2	602.4	602.4	607.0	466.9	392.2	798.5	985.3	919.9	677.1
87.5°	126.1	130.7	182.1	191.4	303.5	210.1	191.4	298.8	466.9	410.9	242.8
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°	5360.5	5360.5	5360.5	5360.5	5360.5	5360.5	5360.5	5360.5	5360.5	5360.5	5360.5
2.5°	5472.6	5397.9	5365.2	5257.8	5229.8	5159.7	5127.0	5085.0	5071.0	5010.3	5066.3
5°	5514.6	5491.3	5360.5	5225.1	5122.4	5075.7	5005.6	4912.3	4902.9	4818.9	4809.5
7.5°	5692.0	5612.7	5383.9	5239.1	5033.7	4916.9	4762.8	4716.1	4655.4	4627.4	4688.1
10°	5967.5	5766.8	5425.9	5061.7	4809.5	4669.4	4557.4	4524.7	4529.4	4510.7	4482.7
12.5°	6163.7	5972.2	5355.8	4912.3	4585.4	4450.0	4440.6	4473.3	4524.7	4501.3	4534.0
15°	6443.8	6084.3	5304.5	4664.8	4403.3	4365.9	4361.3	4459.3	4454.6	4454.6	4450.0
17.5°	6705.3	6196.3	5117.7	4450.0	4211.8	4239.9	4272.5	4267.9	4314.6	4333.2	4365.9
20°	7036.8	6327.1	4856.2	4235.2	4067.1	4057.7	4053.1	4057.7	4104.4	4132.5	4109.1
22.5°	7326.4	6355.1	4636.8	4029.7	3894.3	3857.0	3796.3	3857.0	3833.6	3842.9	3871.0
25°	7578.5	6359.8	4323.9	3875.6	3721.5	3637.5	3590.8	3586.1	3544.1	3539.4	3539.4
27.5°	7788.6	6201.0	4048.4	3660.8	3516.1	3436.7	3432.0	3380.7	3273.3	3203.2	3212.6
30°	7952.1	6079.6	3857.0	3474.1	3334.0	3320.0	3277.9	3161.2	3021.1	2932.4	2932.4
32.5°	8241.6	5836.8	3595.5	3282.6	3212.6	3193.9	3095.8	2993.1	2862.4	2778.3	2764.3
35°	8456.4	5612.7	3422.7	3119.2	3086.5	3049.1	2965.1	2853.0	2815.7	2797.0	2811.0
37.5°	8699.2	5360.5	3212.6	2979.1	3011.8	2941.7	2843.7	2792.3	2923.1	2890.4	2904.4
40°	9086.7	5183.1	3007.1	2895.1	2927.7	2848.4	2722.3	2703.6	2867.0	2750.3	2722.3
42.5°	9796.5	5178.4	2881.0	2769.0	2792.3	2731.6	2619.6	2610.2	2675.6	2535.5	2493.5
45°	10679.0	5341.8	2787.7	2675.6	2656.9	2647.6	2610.2	2568.2	2512.2	2330.1	2283.4
47.5°	11734.3	5608.0	2769.0	2535.5	2558.9	2638.2	2591.5	2484.1	2339.4	2222.7	2199.3
50°	13013.7	6159.0	2722.3	2432.8	2474.8	2600.9	2563.5	2414.1	2283.4	2208.6	2194.6
52.5°	14428.6	6854.7	2661.6	2274.0	2367.4	2568.2	2586.9	2446.8	2255.3	2190.0	2180.6
55°	16095.6	7882.0	2591.5	2101.2	2241.3	2535.5	2586.9	2353.4	2218.0	2218.0	2208.6
57.5°	19387.5	9731.1	2446.8	1942.5	2129.3	2474.8	2512.2	2358.1	2222.7	2222.7	2204.0
60°	24215.7	12616.8	2171.3	1821.1	2021.9	2390.8	2456.1	2288.0	2171.3	2199.3	2194.6
62.5°	27993.3	13494.7	1937.8	1704.3	1914.5	2236.7	2381.4	2213.3	2110.6	2213.3	2222.7
65°	28801.1	12607.5	1699.7	1578.3	1765.0	2087.2	2274.0	2105.9	2021.9	2222.7	2232.0
66°	28511.6	11916.4	1615.6	1540.9	1699.7	2012.5	2208.6	2068.6	1975.2	2213.3	2218.0
67.5°	27222.8	10879.8	1522.2	1461.5	1611.0	1905.1	2133.9	2017.2	1900.5	2185.3	2143.3
70°	24421.2	9226.8	1363.5	1321.5	1484.9	1727.7	1961.2	1886.5	1783.7	2012.5	1937.8
72.5°	18808.5	7373.0	1195.4	1200.0	1340.1	1545.6	1788.4	1737.0	1648.3	1765.0	1718.4
75°	11454.1	4711.5	1041.3	1050.6	1167.4	1372.8	1625.0	1587.6	1480.2	1545.6	1522.2
77.5°	5075.7	2334.7	877.9	896.5	989.9	1209.4	1414.8	1354.1	1242.1	1256.1	1246.7
80°	1970.5	1106.7	714.4	737.8	798.5	966.6	1172.0	1116.0	1017.9	999.3	989.9
82.5°	947.9	616.4	551.0	560.3	583.7	770.5	1008.6	938.6	807.8	723.8	723.8
85°	476.3	382.9	387.6	354.9	387.6	523.0	681.7	569.7	471.6	420.2	429.6
87.5°	191.4	191.4	191.4	163.4	172.8	247.5	317.5	214.8	196.1	116.7	116.7
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)