

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: P480445

Luminaire Tested: **IFLD-L-SA7C-730-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480445
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-730-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

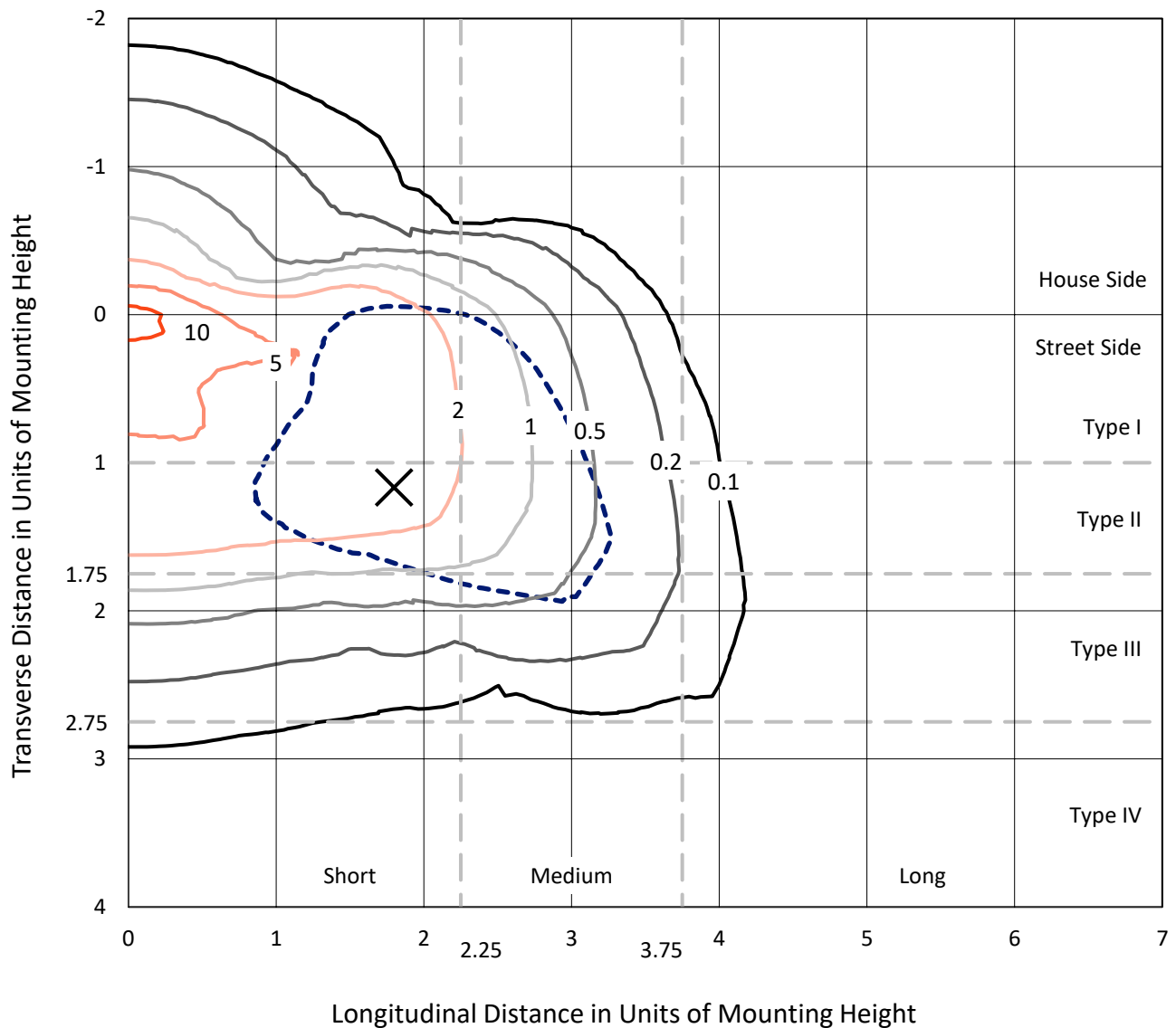
Lumens per Lamp: N/A
Luminaire Lumens: 39831.8 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 369
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

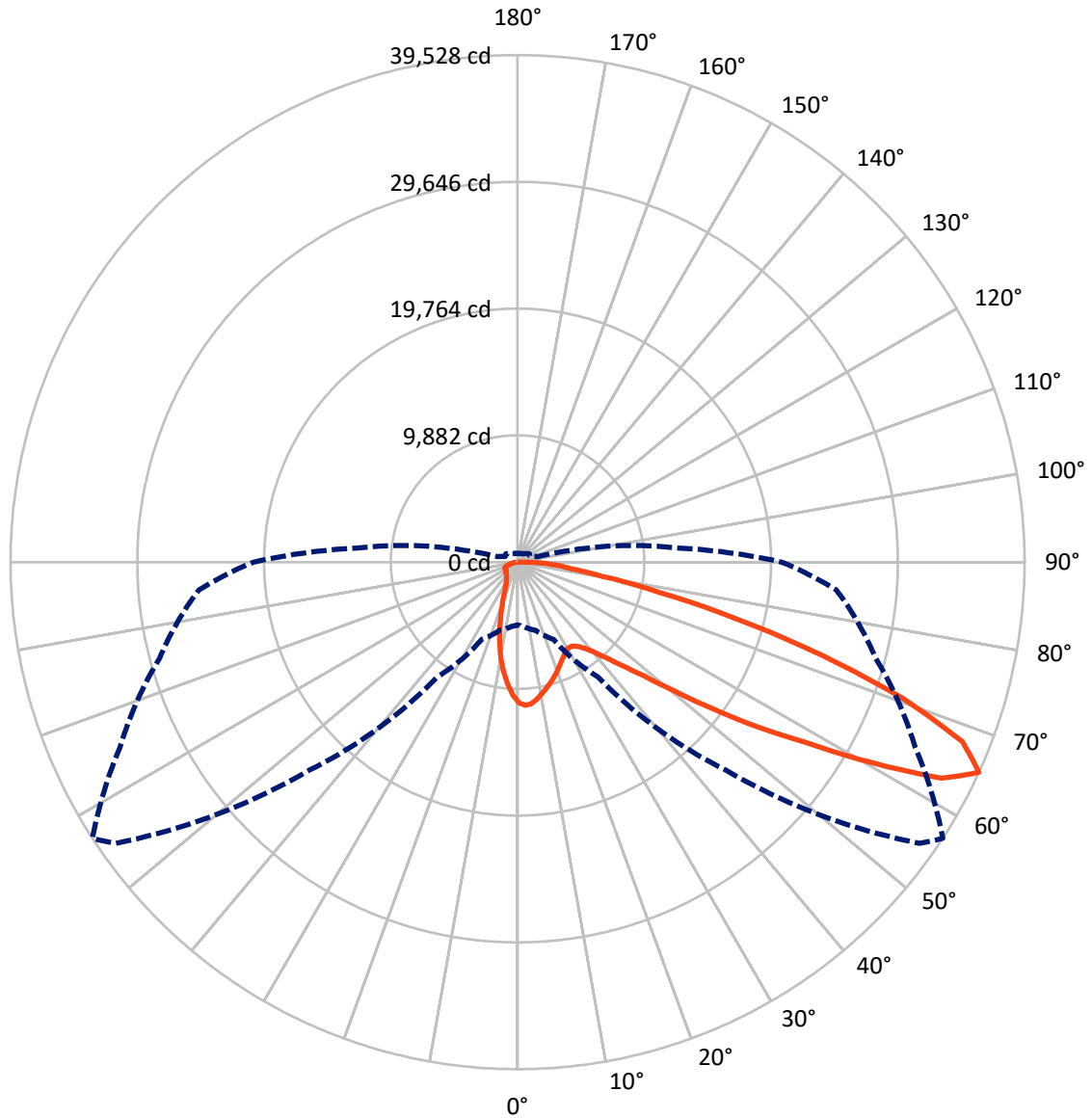
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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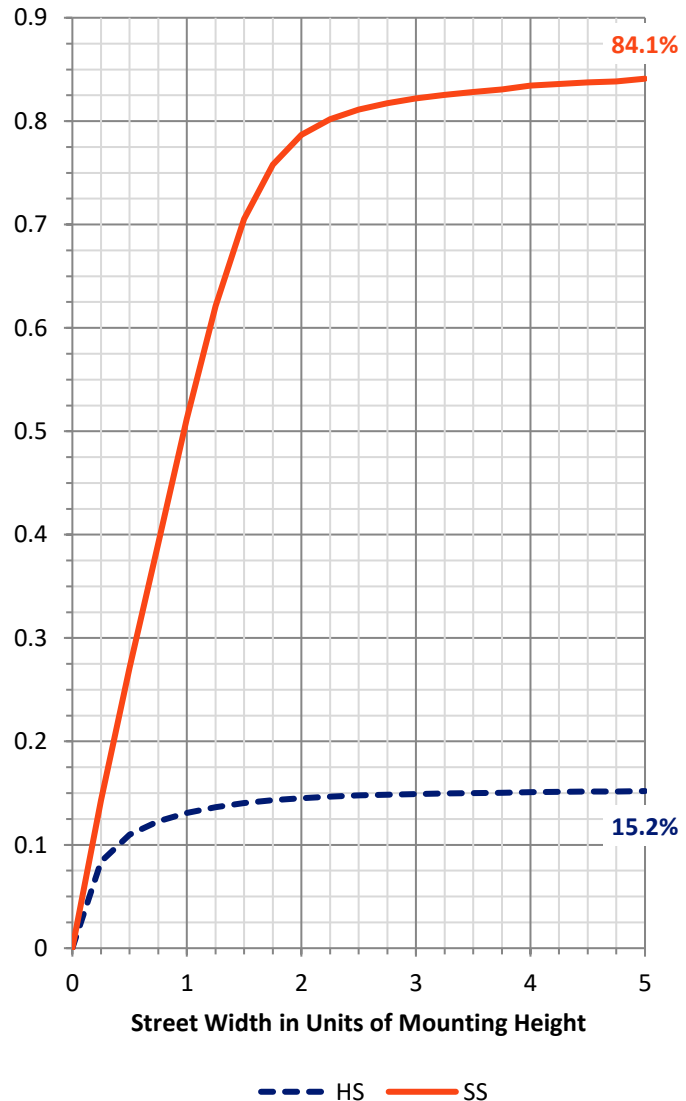
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6108.6	0.0	6108.6
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	33723.2	0.0	33723.2
	% Fixture	84.7	0.0	84.7
Total	Lumens	39831.8	0.0	39831.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	917.2	2.3
10°-20°	1974.1	5.0
20°-30°	2552.3	6.4
30°-40°	3434.5	8.6
40°-50°	5476.5	13.7
50°-60°	9672.9	24.3
60°-70°	10641.4	26.7
70°-80°	4451.5	11.2
80°-90°	711.4	1.8
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°	39831.8	100.0
0°-180°	39831.8	100.0

Coefficient of Utilization

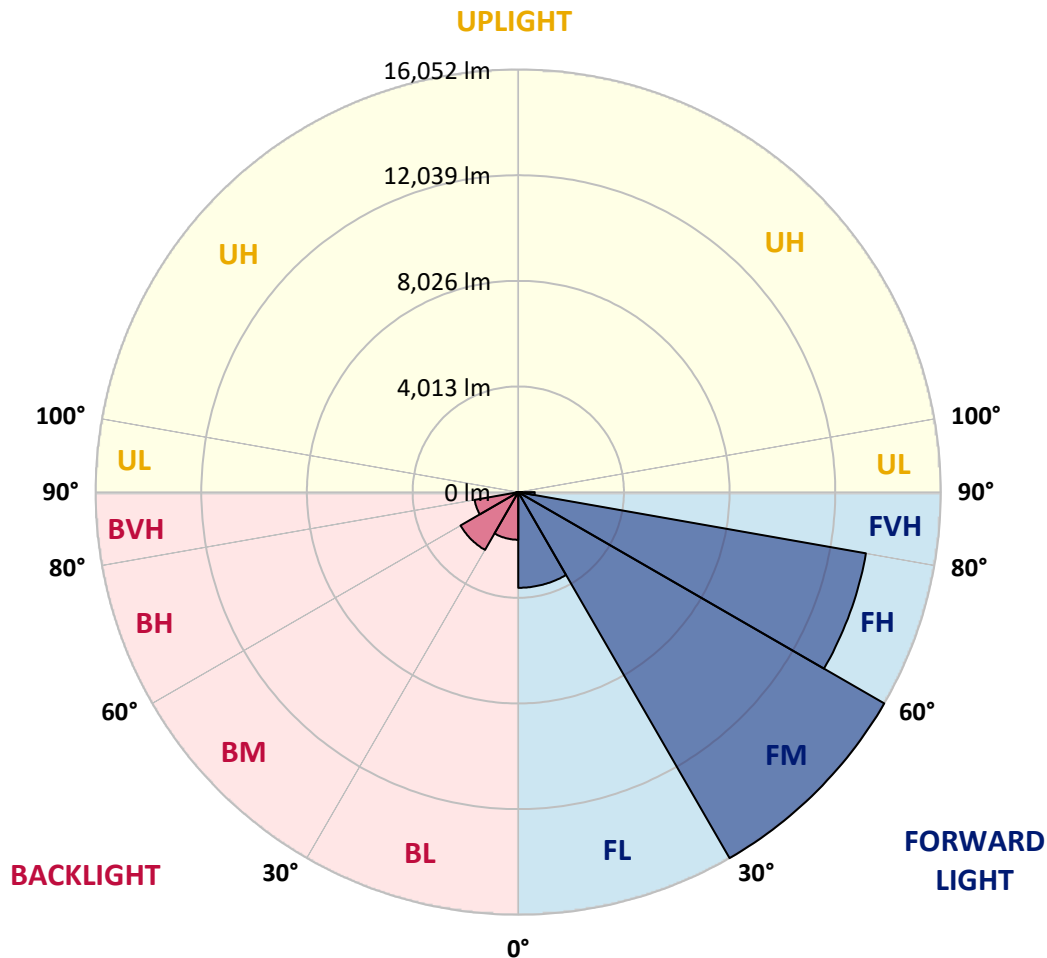


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3634.5	9.1			
FM (30°-60°)	16052.2	40.3			
FH (60°-80°)	13408.6	33.7			G5
FVH (80°-90°)	628.0	1.6			G4/750
BL (0°-30°)	1809.1	4.5	B3/2500		
BM (30°-60°)	2531.7	6.4	B3/5000		
BH (60°-80°)	1684.3	4.2	B3/2500		G3/2500
BVH (80°-90°)	83.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	10953.2	10953.2	10953.2	10953.2	10953.2	10953.2	10953.2	10953.2	10953.2	10953.2	10953.2
2.5°	11249.0	11266.9	11266.9	11302.8	11181.8	11240.0	11231.1	11177.3	11195.2	11101.1	11007.0
5°	10930.8	10917.3	10989.0	10998.0	11092.1	11119.0	11141.4	11105.6	11114.5	10908.4	10818.7
7.5°	10115.1	10110.6	10231.6	10334.7	10531.9	10715.7	10836.7	10800.8	10850.1	10720.1	10509.5
10°	9147.1	9250.2	9375.6	9478.7	9841.7	10074.8	10388.5	10419.9	10608.1	10576.7	10195.8
12.5°	8421.0	8465.9	8560.0	8855.8	9187.4	9572.8	10021.0	10061.3	10245.1	10334.7	10003.1
15°	7825.0	7865.3	7986.3	8205.9	8577.9	9035.0	9604.2	9707.3	10074.8	10106.2	9752.1
17.5°	7390.3	7421.6	7502.3	7721.9	8026.7	8613.8	9151.6	9335.3	9819.3	9971.7	9492.2
20°	7220.0	7152.7	7197.6	7336.5	7641.2	8093.9	8788.5	8949.9	9568.4	9868.6	9245.7
22.5°	7143.8	7085.5	7112.4	7103.4	7345.4	7668.1	8398.6	8568.9	9330.8	9747.6	9026.1
25°	7202.0	7202.0	7175.1	7152.7	7179.6	7390.3	7977.4	8241.8	9012.6	9644.5	8802.0
27.5°	7515.8	7394.7	7408.2	7314.1	7287.2	7287.2	7789.1	7946.0	8909.6	9586.3	8618.2
30°	7717.4	7775.7	7780.2	7641.2	7502.3	7251.3	7614.3	7766.7	8824.4	9658.0	8510.7
32.5°	8232.8	8205.9	8129.7	8102.9	7896.7	7614.3	7699.5	7802.6	8775.1	9819.3	8542.1
35°	8748.2	8734.8	8739.2	8725.8	8510.7	8093.9	7928.1	8067.0	8864.7	10101.7	8649.6
37.5°	9281.5	9317.4	9469.8	9469.8	9241.2	8788.5	8568.9	8528.6	9191.9	10563.3	8905.1
40°	9814.8	9904.5	10097.2	10401.9	10079.3	9658.0	9303.9	9241.2	9586.3	11181.8	9519.1
42.5°	10325.8	10473.7	10854.6	11307.2	11199.7	10778.4	10307.8	10236.1	10397.5	12100.5	10375.1
45°	10980.1	11105.6	11706.1	12400.8	12548.7	12176.7	11625.4	11567.2	11558.2	13445.0	11553.7
47.5°	11975.0	12109.5	12710.0	13409.1	13866.3	13924.5	13306.1	13243.3	13028.2	15260.1	13279.2
50°	13220.9	13440.5	13946.9	14762.6	15425.9	16048.8	15874.1	15690.3	15269.0	17370.9	15466.2
52.5°	14130.7	14399.6	15085.3	16129.5	17299.2	18289.7	18917.1	18917.1	17949.1	19688.0	18097.0
55°	14372.7	14534.0	15399.0	16909.3	18912.6	21417.9	22731.0	22632.4	21140.0	22126.0	21157.9
57.5°	13409.1	13619.8	14668.5	16250.5	19759.7	24344.4	26518.0	26540.4	24626.7	24958.4	24178.6
60°	10756.0	10823.2	12060.2	14175.5	18944.0	26701.8	31689.9	31775.0	28593.0	27481.6	25715.8
62.5°	7435.1	7650.2	8582.4	10437.8	15694.8	26437.3	36677.9	37099.2	31770.5	28812.6	25957.8
65°	4894.0	5023.9	5521.4	6650.8	10926.3	22914.8	38228.6	39528.3	34199.6	28888.8	24944.9
67.5°	3549.5	3571.9	3719.8	4302.4	6565.6	16479.1	35579.9	37412.9	35109.4	28252.4	22569.7
70°	2868.3	2886.2	2940.0	3312.0	4239.7	10312.3	29018.8	31891.5	32380.0	25236.3	18177.6
72.5°	2330.5	2352.9	2420.1	2769.7	3495.7	5736.5	21220.7	24720.9	26338.7	18670.6	12082.6
75°	1833.0	1850.9	2012.3	2357.4	3285.1	3939.4	14076.9	17505.4	17725.0	10912.9	5655.9
77.5°	1254.9	1286.2	1483.4	1998.8	3092.3	3446.4	8775.1	11213.1	10061.3	4271.0	1945.0
80°	797.7	842.6	959.1	1514.8	2733.8	3289.5	5458.7	6695.6	4405.5	1461.0	936.7
82.5°	470.6	515.4	631.9	981.5	2146.7	3052.0	3845.3	4190.4	2066.0	748.4	564.7
85°	259.9	291.3	380.9	591.6	1259.3	2711.4	3078.9	3007.2	1183.2	398.9	354.1
87.5°	85.2	98.6	138.9	237.5	519.9	1277.3	1846.4	1734.4	614.0	183.7	138.9
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°	10953.2	10953.2	10953.2	10953.2	10953.2	10953.2	10953.2	10953.2	10953.2	10953.2	10953.2
2.5°	10944.2	10930.8	10729.1	10576.7	10316.8	10101.7	10016.5	9900.0	9895.5	9810.4	9788.0
5°	10679.8	10540.9	10231.6	9935.9	9474.2	9165.0	8882.7	8685.5	8604.8	8430.0	8389.7
7.5°	10339.2	10155.5	9680.4	9124.7	8582.4	8098.4	7659.2	7220.0	6973.5	6888.3	6794.2
10°	9985.1	9662.5	8958.8	8335.9	7578.5	6834.5	6144.4	5525.9	5189.8	4952.2	4849.2
12.5°	9702.8	9272.6	8376.2	7444.0	6444.6	5449.7	4647.5	3997.6	3616.7	3437.4	3356.8
15°	9384.6	8815.4	7739.8	6561.2	5315.3	4185.9	3401.6	2890.7	2738.3	2653.1	2639.7
17.5°	9048.5	8389.7	7049.7	5691.7	4212.8	3150.6	2644.2	2438.0	2370.8	2334.9	2317.0
20°	8734.8	8008.7	6341.6	4723.7	3298.5	2527.7	2290.1	2182.6	2178.1	2196.0	2191.5
22.5°	8291.1	7511.3	5642.4	3827.3	2635.2	2200.5	2048.1	2021.2	2048.1	2070.5	2079.5
25°	8040.1	7103.4	4862.6	3038.6	2178.1	1954.0	1904.7	1895.7	1936.1	1963.0	1958.5
27.5°	7780.2	6682.2	4136.6	2433.5	1909.2	1779.2	1770.3	1779.2	1819.6	1859.9	1855.4
30°	7578.5	6346.0	3455.4	2034.7	1703.0	1653.7	1644.8	1653.7	1676.1	1680.6	1680.6
32.5°	7412.7	5947.2	2877.2	1765.8	1577.5	1537.2	1546.2	1541.7	1546.2	1550.7	1555.1
35°	7314.1	5709.6	2402.2	1600.0	1474.5	1443.1	1438.6	1425.2	1429.7	1434.1	1429.7
37.5°	7524.7	5593.1	2025.7	1483.4	1402.8	1375.9	1366.9	1357.9	1344.5	1344.5	1344.5
40°	7842.9	5530.4	1797.1	1407.2	1349.0	1317.6	1290.7	1281.8	1281.8	1286.2	1290.7
42.5°	8474.8	5633.5	1640.3	1349.0	1281.8	1245.9	1219.0	1223.5	1236.9	1250.4	1241.4
45°	9389.1	5947.2	1568.6	1304.2	1241.4	1192.1	1174.2	1169.7	1183.2	1205.6	1223.5
47.5°	10585.7	6435.7	1541.7	1263.8	1214.5	1147.3	1124.9	1138.3	1156.3	1187.6	1174.2
50°	12544.2	7533.7	1564.1	1228.0	1174.2	1124.9	1098.0	1084.6	1098.0	1120.4	1129.4
52.5°	15103.2	9528.0	1649.3	1210.0	1147.3	1107.0	1062.2	1039.7	1053.2	1071.1	1071.1
55°	18164.2	12252.9	1886.8	1187.6	1102.5	1080.1	1030.8	986.0	994.9	994.9	990.4
57.5°	20862.2	14310.0	2169.1	1156.3	1075.6	1044.2	981.5	927.7	918.7	923.2	927.7
60°	22072.2	14856.7	2303.6	1147.3	1075.6	999.4	914.3	860.5	847.0	838.1	838.1
62.5°	21861.6	13911.1	2030.2	1107.0	1102.5	963.6	851.5	793.3	775.3	757.4	761.9
65°	20588.8	12562.1	1600.0	1053.2	1107.0	941.1	788.8	730.5	699.1	676.7	672.2
67.5°	18262.8	10724.6	1268.3	1012.9	1062.2	900.8	735.0	667.8	640.9	618.5	609.5
70°	14287.5	8407.6	1102.5	959.1	954.6	802.2	672.2	614.0	573.7	546.8	546.8
72.5°	9263.6	5315.3	945.6	851.5	824.6	672.2	582.6	546.8	515.4	493.0	493.0
75°	4194.8	2469.4	761.9	712.6	672.2	537.8	493.0	475.1	448.2	425.8	425.8
77.5°	1505.8	1053.2	569.2	560.2	501.9	416.8	398.9	385.4	367.5	345.1	345.1
80°	842.6	667.8	425.8	407.8	349.6	309.2	286.8	286.8	277.9	264.4	259.9
82.5°	533.3	434.7	313.7	273.4	228.6	206.2	197.2	192.7	188.2	170.3	165.8
85°	336.1	295.8	206.2	161.3	134.4	103.1	98.6	94.1	85.2	76.2	76.2
87.5°	152.4	170.3	80.7	49.3	35.9	22.4	13.4	4.5	0.0	0.0	0.0
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)