

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: P480563

Luminaire Tested: **IFLD-L-SA7D-750-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480563
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-750-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (112) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

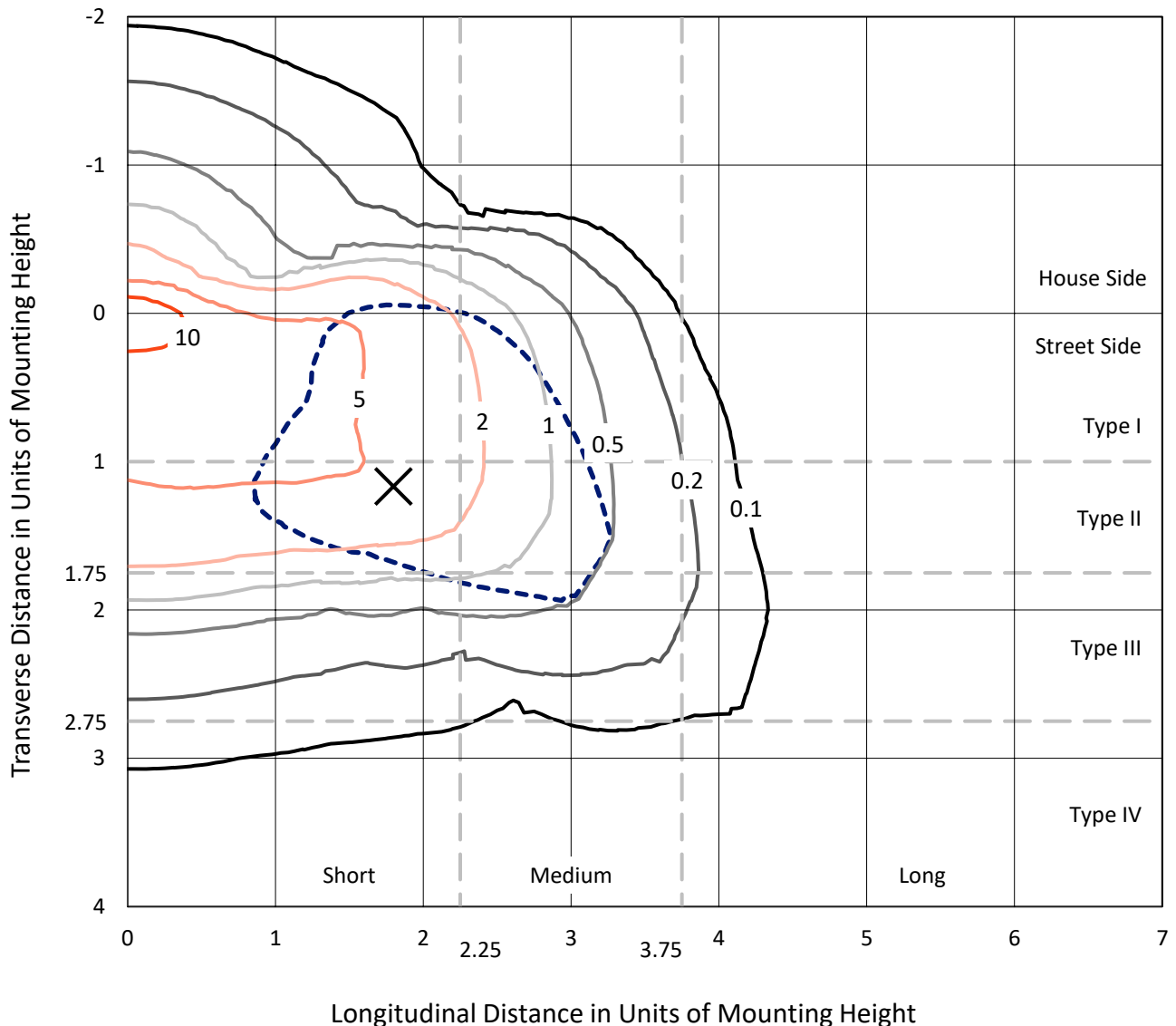
Lumens per Lamp: N/A
Luminaire Lumens: 49233.8 lumens
Efficiency: N/A
Efficacy: 116.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 422.6
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

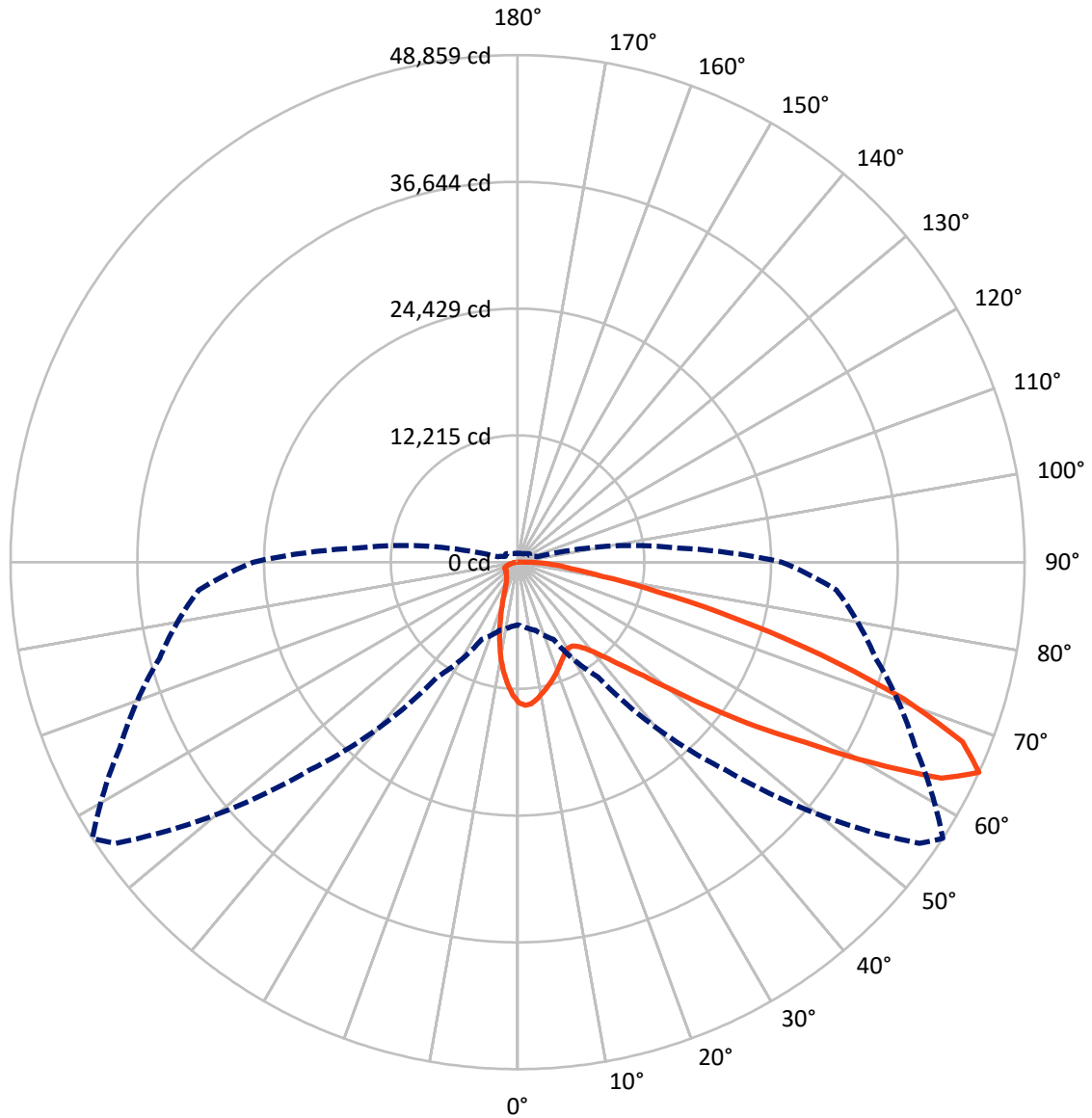
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 15 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	7550.5	0.0	7550.5
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	41683.3	0.0	41683.3
	% Fixture	84.7	0.0	84.7
Total	Lumens	49233.8	0.0	49233.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1133.7	2.3
10°-20°	2440.0	5.0
20°-30°	3154.7	6.4
30°-40°	4245.2	8.6
40°-50°	6769.2	13.7
50°-60°	11956.1	24.3
60°-70°	13153.3	26.7
70°-80°	5502.2	11.2
80°-90°	879.4	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°	49233.8	100.0
0°-180°	49233.8	100.0

Coefficient of Utilization



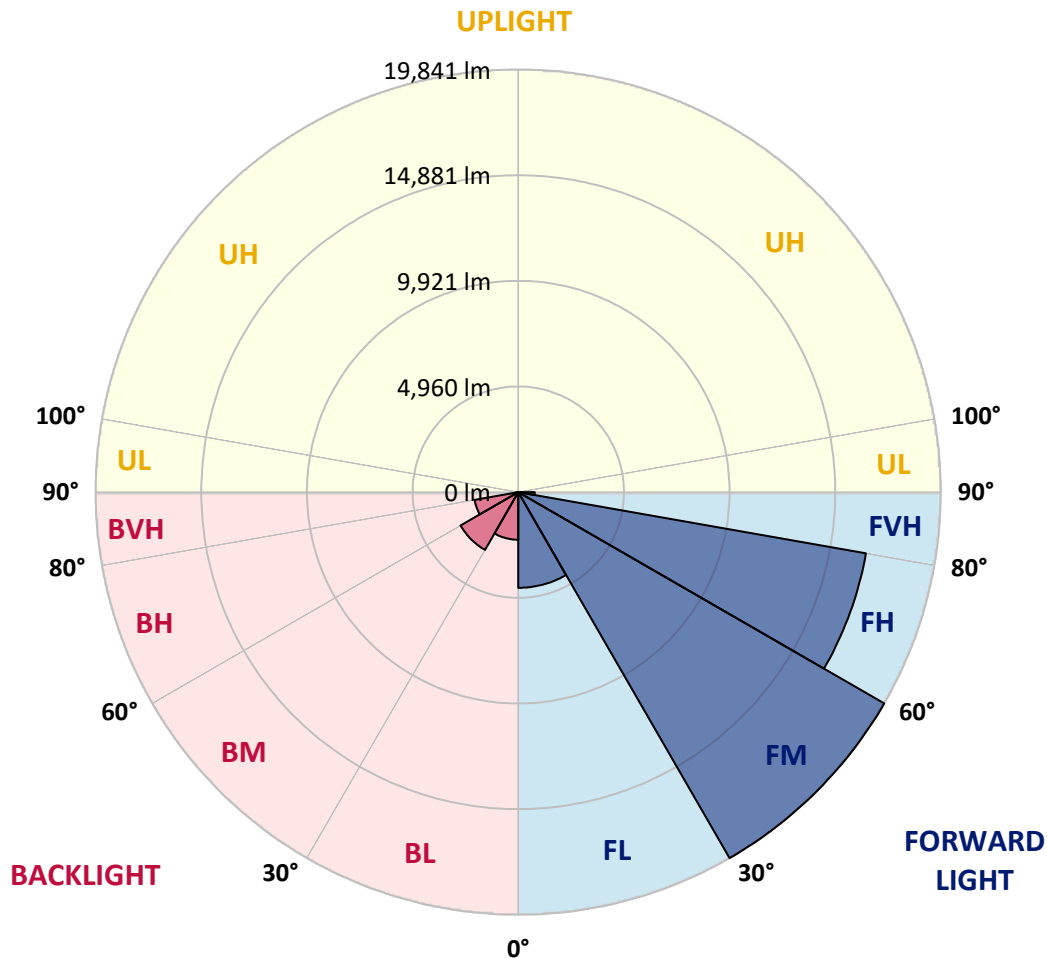
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4492.4	9.1			
FM (30°-60°)	19841.2	40.3			
FH (60°-80°)	16573.6	33.7			G5
FVH (80°-90°)	776.2	1.6			G5
BL (0°-30°)	2236.1	4.5	B3/2500		
BM (30°-60°)	3129.3	6.4	B3/5000		
BH (60°-80°)	2081.9	4.2	B3/2500		G3/2500
BVH (80°-90°)	103.2	0.2			G2/225
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°	13538.6	13538.6	13538.6	13538.6	13538.6	13538.6	13538.6	13538.6	13538.6	13538.6	13538.6
2.5°	13904.2	13926.4	13926.4	13970.7	13821.1	13893.1	13882.0	13815.6	13837.7	13721.4	13605.1
5°	13510.9	13494.3	13582.9	13594.0	13710.3	13743.6	13771.3	13726.9	13738.0	13483.2	13372.4
7.5°	12502.7	12497.2	12646.7	12774.1	13017.9	13245.0	13394.6	13350.2	13411.2	13250.5	12990.2
10°	11306.2	11433.6	11588.7	11716.1	12164.8	12452.8	12840.6	12879.4	13112.0	13073.3	12602.4
12.5°	10408.8	10464.2	10580.5	10946.1	11356.0	11832.4	12386.4	12436.2	12663.3	12774.1	12364.2
15°	9672.0	9721.9	9871.4	10142.9	10602.6	11167.7	11871.2	11998.6	12452.8	12491.6	12054.0
17.5°	9134.7	9173.4	9273.2	9544.6	9921.3	10647.0	11311.7	11538.8	12137.1	12325.4	11732.7
20°	8924.2	8841.1	8896.5	9068.2	9444.9	10004.4	10863.0	11062.4	11826.9	12198.0	11428.0
22.5°	8830.0	8758.0	8791.2	8780.1	9079.3	9478.1	10381.1	10591.6	11533.3	12048.5	11156.6
25°	8902.0	8902.0	8868.8	8841.1	8874.3	9134.7	9860.4	10187.2	11140.0	11921.1	10879.6
27.5°	9289.8	9140.2	9156.8	9040.5	9007.3	9007.3	9627.7	9821.6	11012.6	11849.0	10652.5
30°	9539.1	9611.1	9616.6	9444.9	9273.2	8962.9	9411.6	9600.0	10907.3	11937.7	10519.6
32.5°	10176.1	10142.9	10048.7	10015.5	9760.6	9411.6	9516.9	9644.3	10846.4	12137.1	10558.3
35°	10813.1	10796.5	10802.1	10785.5	10519.6	10004.4	9799.4	9971.1	10957.2	12486.1	10691.3
37.5°	11472.4	11516.7	11705.0	11705.0	11422.5	10863.0	10591.6	10541.7	11361.6	13056.7	11007.0
40°	12131.6	12242.3	12480.5	12857.2	12458.4	11937.7	11500.0	11422.5	11849.0	13821.1	11765.9
42.5°	12763.1	12945.9	13416.7	13976.2	13843.3	13322.6	12740.9	12652.3	12851.7	14956.7	12824.0
45°	13571.8	13726.9	14469.2	15327.9	15510.7	15050.9	14369.5	14297.5	14286.4	16618.6	14280.9
47.5°	14801.6	14967.8	15710.1	16574.3	17139.3	17211.3	16446.8	16369.3	16103.4	18862.1	16413.6
50°	16341.6	16613.0	17239.0	18247.2	19067.0	19837.0	19621.0	19393.9	18873.2	21471.2	19116.9
52.5°	17466.1	17798.5	18646.0	19936.7	21382.6	22606.8	23382.3	23382.3	22185.8	24335.1	22368.6
55°	17765.2	17964.7	19033.8	20900.6	23376.8	26473.4	28096.5	27974.6	26129.9	27348.6	26152.1
57.5°	16574.3	16834.6	18130.9	20086.3	24423.8	30090.7	32777.4	32805.1	30439.7	30849.6	29885.7
60°	13294.9	13377.9	14906.9	17521.5	23415.6	33004.5	39170.0	39275.2	35342.2	33968.4	31785.8
62.5°	9190.1	9456.0	10608.2	12901.5	19399.4	32677.6	45335.5	45856.2	39269.7	35613.6	32084.9
65°	6049.2	6209.8	6824.7	8220.7	13505.4	28323.6	47252.1	48858.6	42272.1	35707.8	30833.0
67.5°	4387.3	4415.0	4597.8	5317.9	8115.4	20368.8	43978.3	46243.9	43396.6	34921.2	27897.0
70°	3545.3	3567.5	3633.9	4093.7	5240.4	12746.4	35868.4	39419.2	40023.1	31193.1	22468.3
72.5°	2880.6	2908.2	2991.3	3423.4	4320.8	7090.6	26229.6	30556.0	32555.8	23077.7	14934.6
75°	2265.7	2287.8	2487.2	2913.8	4060.5	4869.2	17399.6	21637.4	21908.8	13488.7	6990.9
77.5°	1551.1	1589.8	1833.6	2470.6	3822.3	4259.9	10846.4	13859.9	12436.2	5279.2	2404.2
80°	986.0	1041.4	1185.5	1872.4	3379.1	4066.0	6747.1	8276.0	5445.4	1805.9	1157.8
82.5°	581.6	637.0	781.1	1213.2	2653.4	3772.4	4752.9	5179.5	2553.7	925.1	698.0
85°	321.3	360.1	470.9	731.2	1556.6	3351.4	3805.7	3717.0	1462.4	493.0	437.6
87.5°	105.3	121.9	171.7	293.6	642.6	1578.8	2282.3	2143.8	758.9	227.1	171.7
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°	13538.6	13538.6	13538.6	13538.6	13538.6	13538.6	13538.6	13538.6	13538.6	13538.6	13538.6
2.5°	13527.5	13510.9	13261.6	13073.3	12752.0	12486.1	12380.8	12236.8	12231.3	12126.0	12098.3
5°	13200.7	13029.0	12646.7	12281.1	11710.6	11328.3	10979.3	10735.6	10635.9	10419.8	10370.0
7.5°	12779.7	12552.6	11965.4	11278.5	10608.2	10009.9	9467.0	8924.2	8619.5	8514.2	8397.9
10°	12342.1	11943.2	11073.5	10303.5	9367.3	8447.8	7594.7	6830.2	6414.8	6121.2	5993.8
12.5°	11993.1	11461.3	10353.4	9201.1	7965.8	6736.1	5744.5	4941.3	4470.4	4248.8	4149.1
15°	11599.8	10896.2	9566.8	8109.9	6569.9	5173.9	4204.5	3573.0	3384.6	3279.4	3262.8
17.5°	11184.3	10370.0	8713.7	7035.2	5207.2	3894.3	3268.3	3013.5	2930.4	2886.1	2863.9
20°	10796.5	9899.1	7838.4	5838.7	4077.1	3124.3	2830.7	2697.7	2692.2	2714.4	2708.8
22.5°	10248.1	9284.2	6974.3	4730.8	3257.2	2719.9	2531.6	2498.3	2531.6	2559.3	2570.3
25°	9937.9	8780.1	6010.4	3755.8	2692.2	2415.2	2354.3	2343.2	2393.1	2426.3	2420.8
27.5°	9616.6	8259.4	5113.0	3008.0	2359.8	2199.2	2188.1	2199.2	2249.0	2298.9	2293.4
30°	9367.3	7844.0	4271.0	2514.9	2105.0	2044.1	2033.0	2044.1	2071.8	2077.3	2077.3
32.5°	9162.4	7350.9	3556.4	2182.6	1949.9	1900.1	1911.1	1905.6	1911.1	1916.7	1922.2
35°	9040.5	7057.4	2969.2	1977.6	1822.5	1783.7	1778.2	1761.6	1767.1	1772.6	1767.1
37.5°	9300.9	6913.3	2503.9	1833.6	1733.9	1700.6	1689.6	1678.5	1661.9	1661.9	1661.9
40°	9694.2	6835.8	2221.3	1739.4	1667.4	1628.6	1595.4	1584.3	1584.3	1589.8	1595.4
42.5°	10475.2	6963.2	2027.5	1667.4	1584.3	1540.0	1506.8	1512.3	1528.9	1545.5	1534.4
45°	11605.3	7350.9	1938.8	1612.0	1534.4	1473.5	1451.4	1445.8	1462.4	1490.1	1512.3
47.5°	13084.4	7954.8	1905.6	1562.1	1501.2	1418.1	1390.4	1407.0	1429.2	1468.0	1451.4
50°	15505.1	9311.9	1933.3	1517.8	1451.4	1390.4	1357.2	1340.6	1357.2	1384.9	1396.0
52.5°	18668.2	11777.0	2038.5	1495.7	1418.1	1368.3	1312.9	1285.2	1301.8	1323.9	1323.9
55°	22451.7	15145.1	2332.1	1468.0	1362.7	1335.0	1274.1	1218.7	1229.8	1229.8	1224.2
57.5°	25786.5	17687.7	2681.1	1429.2	1329.5	1290.7	1213.2	1146.7	1135.6	1141.1	1146.7
60°	27282.1	18363.5	2847.3	1418.1	1329.5	1235.3	1130.1	1063.6	1047.0	1035.9	1035.9
62.5°	27021.8	17194.7	2509.4	1368.3	1362.7	1191.0	1052.5	980.5	958.3	936.2	941.7
65°	25448.6	15527.3	1977.6	1301.8	1368.3	1163.3	975.0	902.9	864.2	836.5	830.9
67.5°	22573.6	13256.1	1567.7	1251.9	1312.9	1113.4	908.5	825.4	792.2	764.5	753.4
70°	17660.0	10392.1	1362.7	1185.5	1179.9	991.6	830.9	758.9	709.1	675.8	675.8
72.5°	11450.2	6569.9	1168.8	1052.5	1019.3	830.9	720.1	675.8	637.0	609.3	609.3
75°	5185.0	3052.3	941.7	880.8	830.9	664.7	609.3	587.2	554.0	526.3	526.3
77.5°	1861.3	1301.8	703.5	692.4	620.4	515.2	493.0	476.4	454.2	426.5	426.5
80°	1041.4	825.4	526.3	504.1	432.1	382.2	354.5	354.5	343.5	326.8	321.3
82.5°	659.2	537.3	387.8	337.9	282.5	254.8	243.7	238.2	232.7	210.5	205.0
85°	415.5	365.6	254.8	199.4	166.2	127.4	121.9	116.3	105.3	94.2	94.2
87.5°	188.3	210.5	99.7	60.9	44.3	27.7	16.6	5.5	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)