

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: P480676

Luminaire Tested: **IFLD-M-SA4E-830-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480676
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-830-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

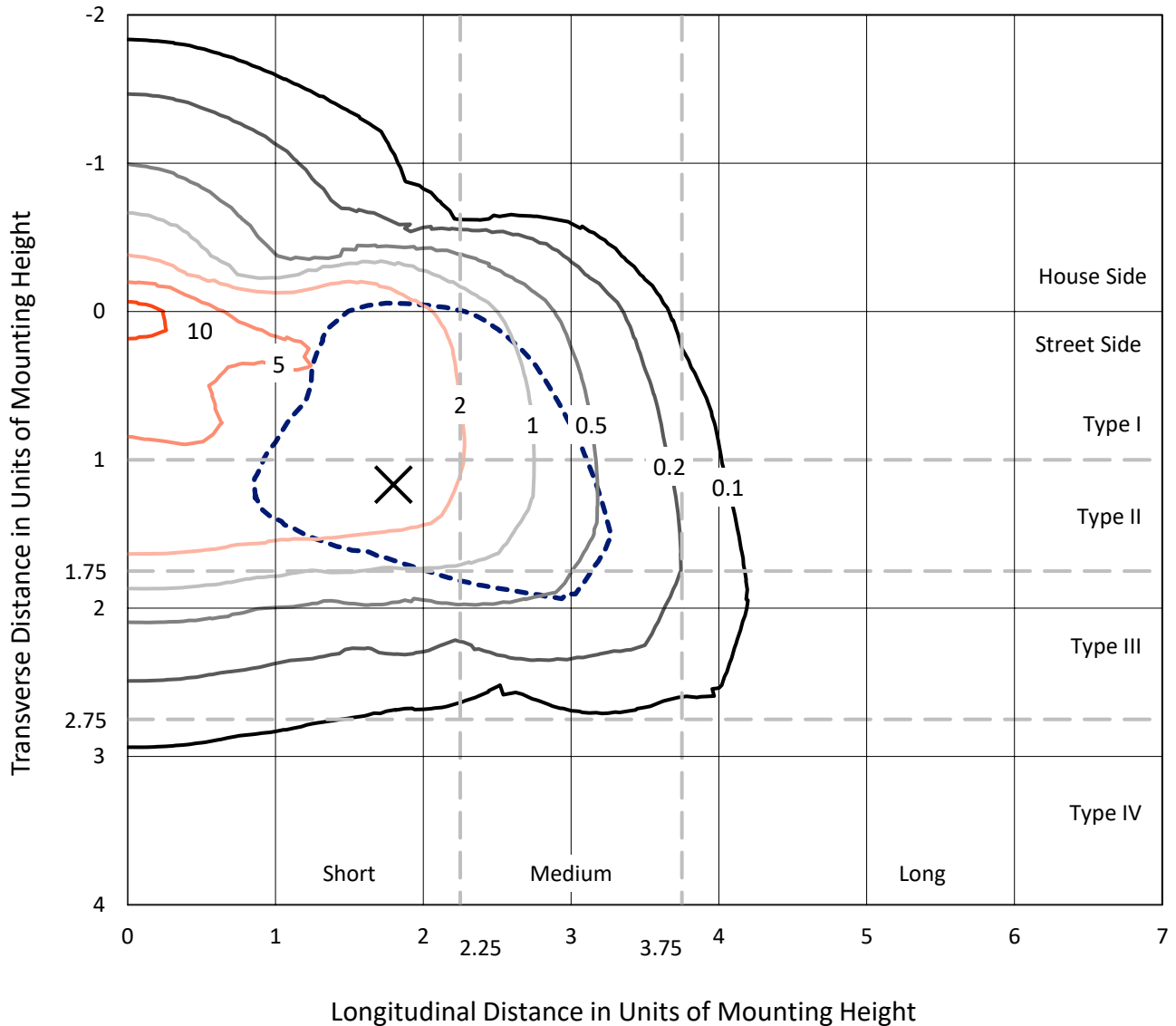
Lumens per Lamp: N/A
Luminaire Lumens: 28386.3 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 314.8
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

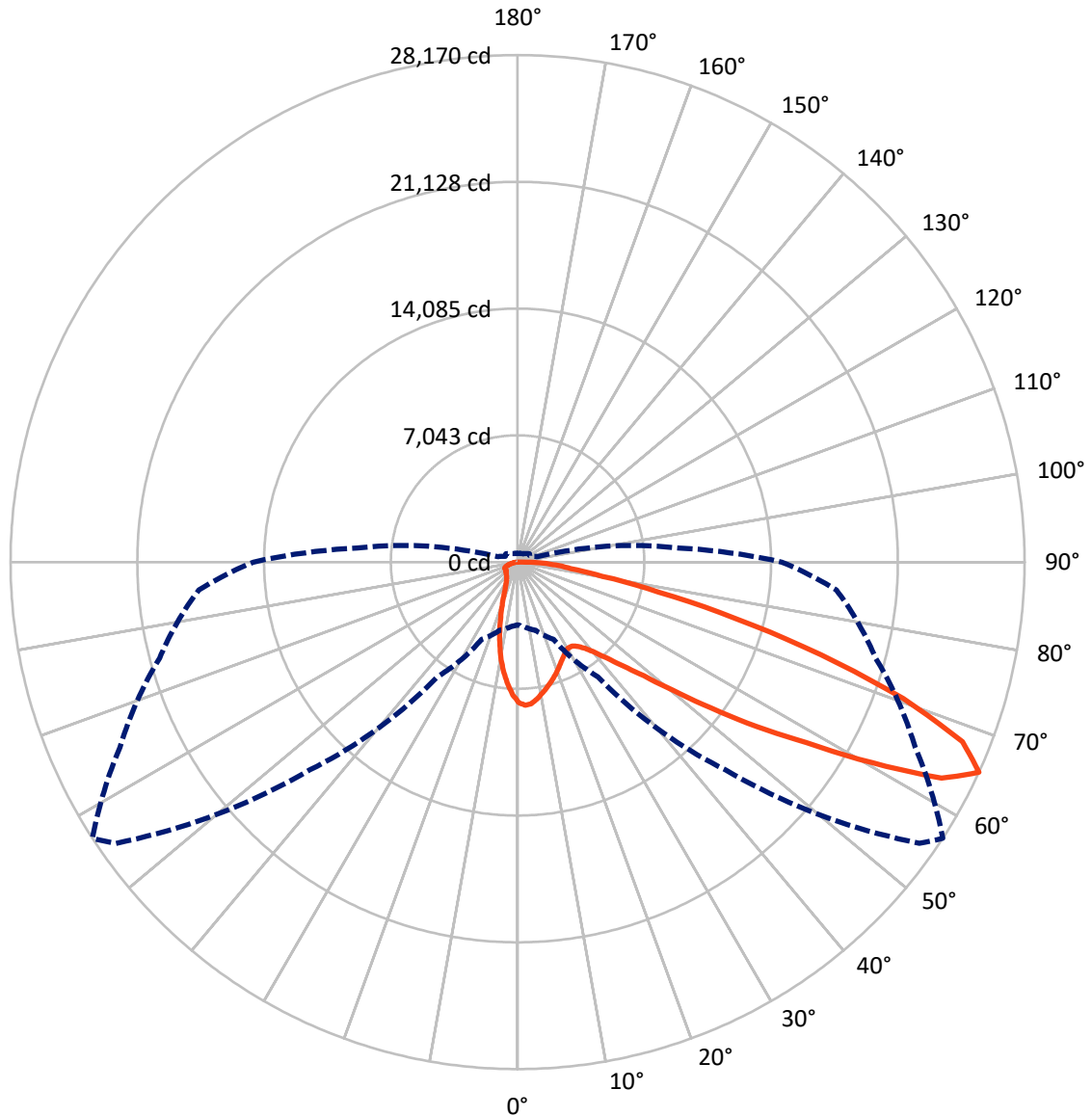
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 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	4353.3	0.0	4353.3
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	24033.0	0.0	24033.0
	% Fixture	84.7	0.0	84.7
Total	Lumens	28386.3	0.0	28386.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	653.7	2.3
10°-20°	1406.8	5.0
20°-30°	1818.9	6.4
30°-40°	2447.6	8.6
40°-50°	3902.9	13.7
50°-60°	6893.4	24.3
60°-70°	7583.7	26.7
70°-80°	3172.4	11.2
80°-90°	507.0	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°	28386.3	100.0
0°-180°	28386.3	100.0

Coefficient of Utilization



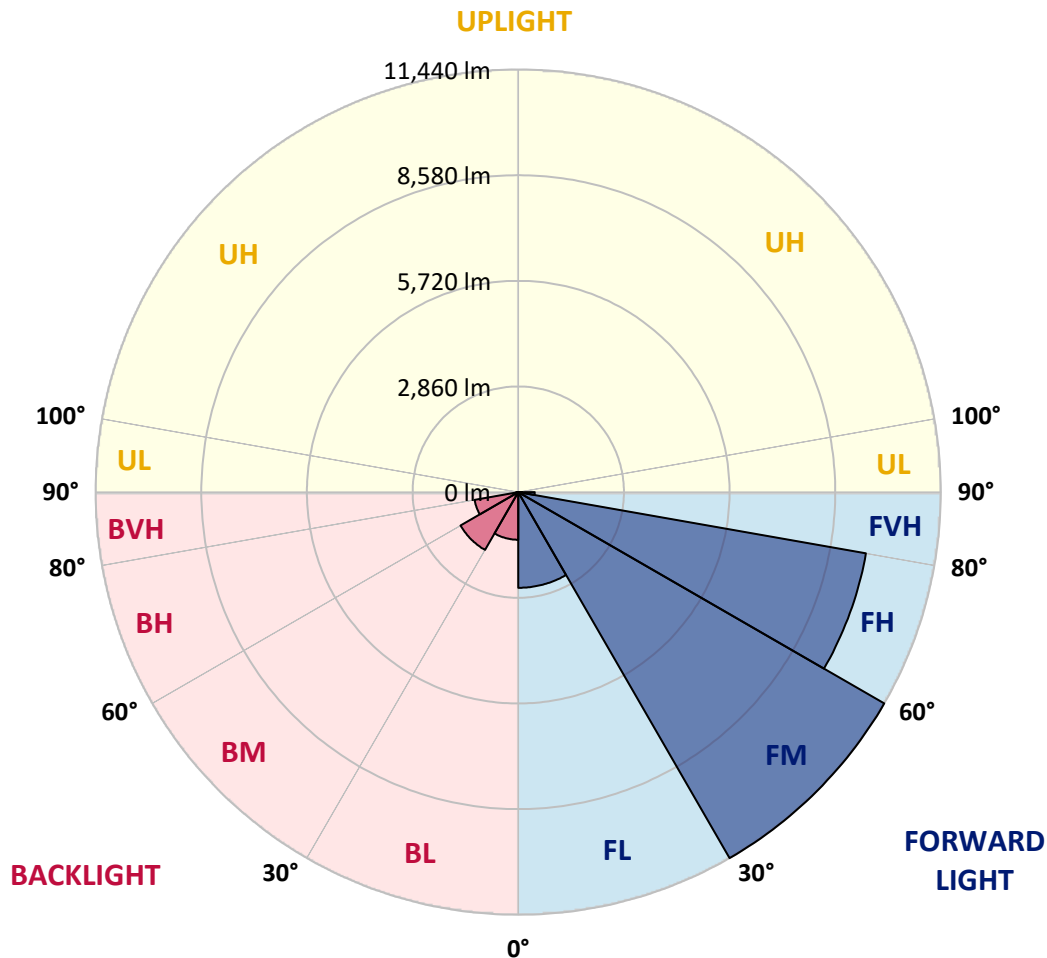
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2590.1	9.1			
FM (30°-60°)	11439.6	40.3			
FH (60°-80°)	9555.7	33.7			G4/12000
FVH (80°-90°)	447.5	1.6			G3/500
BL (0°-30°)	1289.2	4.5	B3/2500		
BM (30°-60°)	1804.2	6.4	B2/2500		
BH (60°-80°)	1200.3	4.2	B3/2500		G3/2500
BVH (80°-90°)	59.5	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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	7805.8	7805.8	7805.8	7805.8	7805.8	7805.8	7805.8	7805.8	7805.8	7805.8	7805.8
2.5°	8016.6	8029.4	8029.4	8055.0	7968.7	8010.2	8003.8	7965.5	7978.3	7911.2	7844.2
5°	7789.9	7780.3	7831.4	7837.8	7904.8	7924.0	7940.0	7914.4	7920.8	7773.9	7710.0
7.5°	7208.6	7205.4	7291.6	7365.1	7505.6	7636.6	7722.8	7697.2	7732.4	7639.7	7489.6
10°	6518.7	6592.2	6681.6	6755.0	7013.7	7179.8	7403.4	7425.8	7559.9	7537.5	7266.1
12.5°	6001.3	6033.2	6100.3	6311.1	6547.4	6822.1	7141.5	7170.2	7301.2	7365.1	7128.7
15°	5576.5	5605.2	5691.5	5848.0	6113.1	6438.9	6844.5	6917.9	7179.8	7202.2	6949.9
17.5°	5266.7	5289.1	5346.5	5503.0	5720.2	6138.6	6521.9	6652.8	6997.8	7106.4	6764.6
20°	5145.3	5097.4	5129.4	5228.4	5445.6	5768.1	6263.2	6378.2	6818.9	7032.9	6589.0
22.5°	5091.0	5049.5	5068.7	5062.3	5234.8	5464.7	5985.3	6106.7	6649.6	6946.7	6432.5
25°	5132.6	5132.6	5113.4	5097.4	5116.6	5266.7	5685.1	5873.5	6422.9	6873.2	6272.8
27.5°	5356.1	5269.9	5279.5	5212.4	5193.2	5193.2	5551.0	5662.7	6349.4	6831.7	6141.8
30°	5499.9	5541.4	5544.6	5445.6	5346.5	5167.7	5426.4	5535.0	6288.7	6882.8	6065.2
32.5°	5867.1	5848.0	5793.7	5774.5	5627.6	5426.4	5487.1	5560.5	6253.6	6997.8	6087.5
35°	6234.4	6224.9	6228.1	6218.5	6065.2	5768.1	5650.0	5749.0	6317.5	7199.0	6164.2
37.5°	6614.5	6640.1	6748.7	6748.7	6585.8	6263.2	6106.7	6077.9	6550.6	7528.0	6346.2
40°	6994.6	7058.5	7195.8	7413.0	7183.0	6882.8	6630.5	6585.8	6831.7	7968.7	6783.8
42.5°	7358.7	7464.1	7735.6	8058.1	7981.5	7681.3	7345.9	7294.8	7409.8	8623.5	7393.8
45°	7825.0	7914.4	8342.4	8837.5	8942.8	8677.8	8284.9	8243.4	8237.0	9581.6	8233.8
47.5°	8534.0	8629.8	9057.8	9556.1	9881.8	9923.4	9482.6	9437.9	9284.6	10875.1	9463.4
50°	9421.9	9578.4	9939.3	10520.6	10993.3	11437.3	11312.7	11181.8	10881.5	12379.5	11022.1
52.5°	10070.3	10261.9	10750.6	11494.8	12328.4	13034.2	13481.3	13481.3	12791.5	14030.7	12896.9
55°	10242.8	10357.7	10974.2	12050.5	13478.1	15263.5	16199.3	16129.1	15065.5	15768.2	15078.3
57.5°	9556.1	9706.2	10453.6	11581.0	14081.8	17349.1	18898.2	18914.1	17550.3	17786.7	17231.0
60°	7665.3	7713.2	8594.7	10102.2	13500.5	19029.1	22583.9	22644.6	20376.9	19584.8	18326.5
62.5°	5298.6	5451.9	6116.3	7438.5	11184.9	18840.7	26138.7	26438.9	22641.4	20533.4	18498.9
65°	3487.7	3580.3	3934.9	4739.7	7786.7	16330.3	27243.7	28170.0	24372.5	20587.7	17777.1
67.5°	2529.5	2545.5	2650.9	3066.1	4679.0	11743.9	25356.2	26662.5	25020.8	20134.2	16084.4
70°	2044.1	2056.9	2095.2	2360.3	3021.4	7349.1	20680.3	22727.6	23075.7	17984.7	12954.4
72.5°	1660.8	1676.8	1724.7	1973.8	2491.2	4088.2	15123.0	17617.4	18770.4	13305.7	8610.7
75°	1306.3	1319.1	1434.0	1680.0	2341.1	2807.4	10032.0	12475.3	12631.8	7777.1	4030.7
77.5°	894.3	916.6	1057.2	1424.5	2203.8	2456.1	6253.6	7991.1	7170.2	3043.8	1386.1
80°	568.5	600.4	683.5	1079.5	1948.3	2344.3	3890.1	4771.6	3139.6	1041.2	667.5
82.5°	335.4	367.3	450.3	699.5	1529.9	2175.0	2740.3	2986.3	1472.4	533.4	402.4
85°	185.2	207.6	271.5	421.6	897.5	1932.3	2194.2	2143.1	843.2	284.3	252.3
87.5°	60.7	70.3	99.0	169.3	370.5	910.3	1315.9	1236.0	437.6	130.9	99.0
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°	7805.8	7805.8	7805.8	7805.8	7805.8	7805.8	7805.8	7805.8	7805.8	7805.8	7805.8
2.5°	7799.4	7789.9	7646.1	7537.5	7352.3	7199.0	7138.3	7055.3	7052.1	6991.4	6975.4
5°	7611.0	7512.0	7291.6	7080.8	6751.9	6531.5	6330.3	6189.7	6132.2	6007.7	5978.9
7.5°	7368.3	7237.3	6898.8	6502.7	6116.3	5771.3	5458.3	5145.3	4969.7	4909.0	4841.9
10°	7116.0	6886.0	6384.6	5940.6	5400.8	4870.7	4378.8	3938.0	3698.5	3529.2	3455.8
12.5°	6914.7	6608.1	5969.4	5305.0	4592.8	3883.8	3312.0	2848.9	2577.5	2449.7	2392.2
15°	6688.0	6282.4	5515.8	4675.8	3787.9	2983.1	2424.2	2060.0	1951.5	1890.8	1881.2
17.5°	6448.4	5978.9	5024.0	4056.2	3002.2	2245.3	1884.4	1737.5	1689.6	1664.0	1651.2
20°	6224.9	5707.5	4519.3	3366.3	2350.7	1801.3	1632.1	1555.4	1552.2	1565.0	1561.8
22.5°	5908.7	5352.9	4021.1	2727.6	1878.0	1568.2	1459.6	1440.4	1459.6	1475.6	1482.0
25°	5729.8	5062.3	3465.4	2165.4	1552.2	1392.5	1357.4	1351.0	1379.8	1398.9	1395.7
27.5°	5544.6	4762.1	2947.9	1734.3	1360.6	1268.0	1261.6	1268.0	1296.7	1325.5	1322.3
30°	5400.8	4522.5	2462.5	1450.0	1213.7	1178.5	1172.2	1178.5	1194.5	1197.7	1197.7
32.5°	5282.7	4238.3	2050.5	1258.4	1124.2	1095.5	1101.9	1098.7	1101.9	1105.1	1108.3
35°	5212.4	4069.0	1711.9	1140.2	1050.8	1028.4	1025.2	1015.7	1018.8	1022.0	1018.8
37.5°	5362.5	3986.0	1443.6	1057.2	999.7	980.5	974.1	967.7	958.2	958.2	958.2
40°	5589.3	3941.2	1280.7	1002.9	961.4	939.0	919.8	913.4	913.4	916.6	919.8
42.5°	6039.6	4014.7	1169.0	961.4	913.4	887.9	868.7	871.9	881.5	891.1	884.7
45°	6691.2	4238.3	1117.9	929.4	884.7	849.6	836.8	833.6	843.2	859.2	871.9
47.5°	7543.9	4586.4	1098.7	900.7	865.5	817.6	801.7	811.2	824.0	846.4	836.8
50°	8939.7	5368.9	1114.7	875.1	836.8	801.7	782.5	772.9	782.5	798.5	804.9
52.5°	10763.4	6790.2	1175.3	862.3	817.6	788.9	756.9	741.0	750.6	763.3	763.3
55°	12944.8	8732.1	1344.6	846.4	785.7	769.7	734.6	702.7	709.0	709.0	705.8
57.5°	14867.5	10198.0	1545.8	824.0	766.5	744.2	699.5	661.1	654.7	657.9	661.1
60°	15729.8	10587.7	1641.7	817.6	766.5	712.2	651.6	613.2	603.6	597.3	597.3
62.5°	15579.7	9913.8	1446.8	788.9	785.7	686.7	606.8	565.3	552.5	539.8	543.0
65°	14672.7	8952.4	1140.2	750.6	788.9	670.7	562.1	520.6	498.2	482.3	479.1
67.5°	13015.0	7642.9	903.9	721.8	756.9	642.0	523.8	475.9	456.7	440.8	434.4
70°	10182.1	5991.7	785.7	683.5	680.3	571.7	479.1	437.6	408.8	389.7	389.7
72.5°	6601.7	3787.9	673.9	606.8	587.7	479.1	415.2	389.7	367.3	351.3	351.3
75°	2989.5	1759.8	543.0	507.8	479.1	383.3	351.3	338.6	319.4	303.4	303.4
77.5°	1073.1	750.6	405.6	399.2	357.7	297.0	284.3	274.7	261.9	245.9	245.9
80°	600.4	475.9	303.4	290.6	249.1	220.4	204.4	204.4	198.0	188.4	185.2
82.5°	380.1	309.8	223.6	194.8	162.9	146.9	140.5	137.3	134.1	121.4	118.2
85°	239.5	210.8	146.9	115.0	95.8	73.5	70.3	67.1	60.7	54.3	54.3
87.5°	108.6	121.4	57.5	35.1	25.6	16.0	9.6	3.2	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)