

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: P480511

Luminaire Tested: **IFLD-S-SA6A-740-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480511
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-740-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

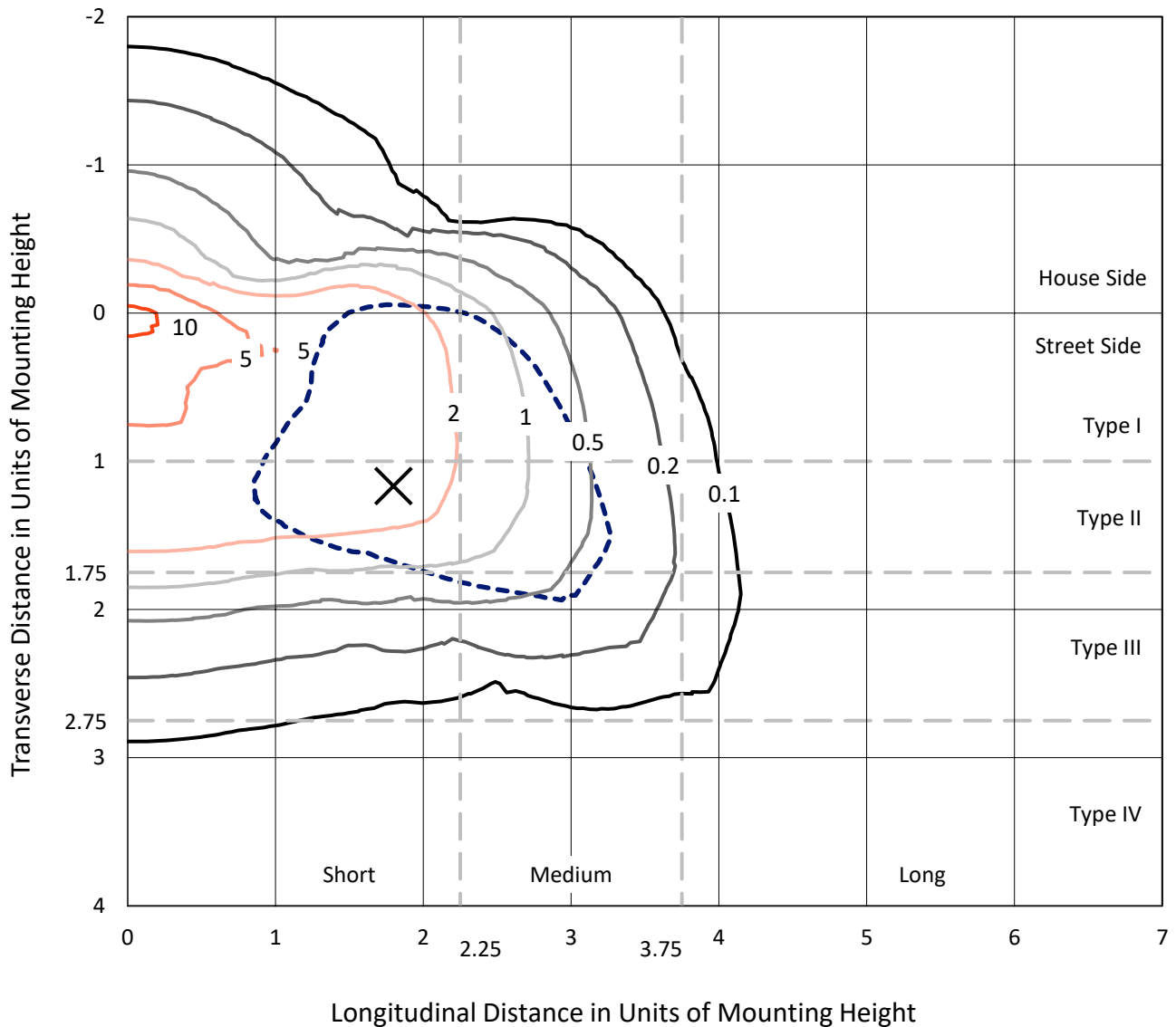
Lumens per Lamp: N/A
Luminaire Lumens: 26631.7 lumens
Efficiency: N/A
Efficacy: 140.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 189.6
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

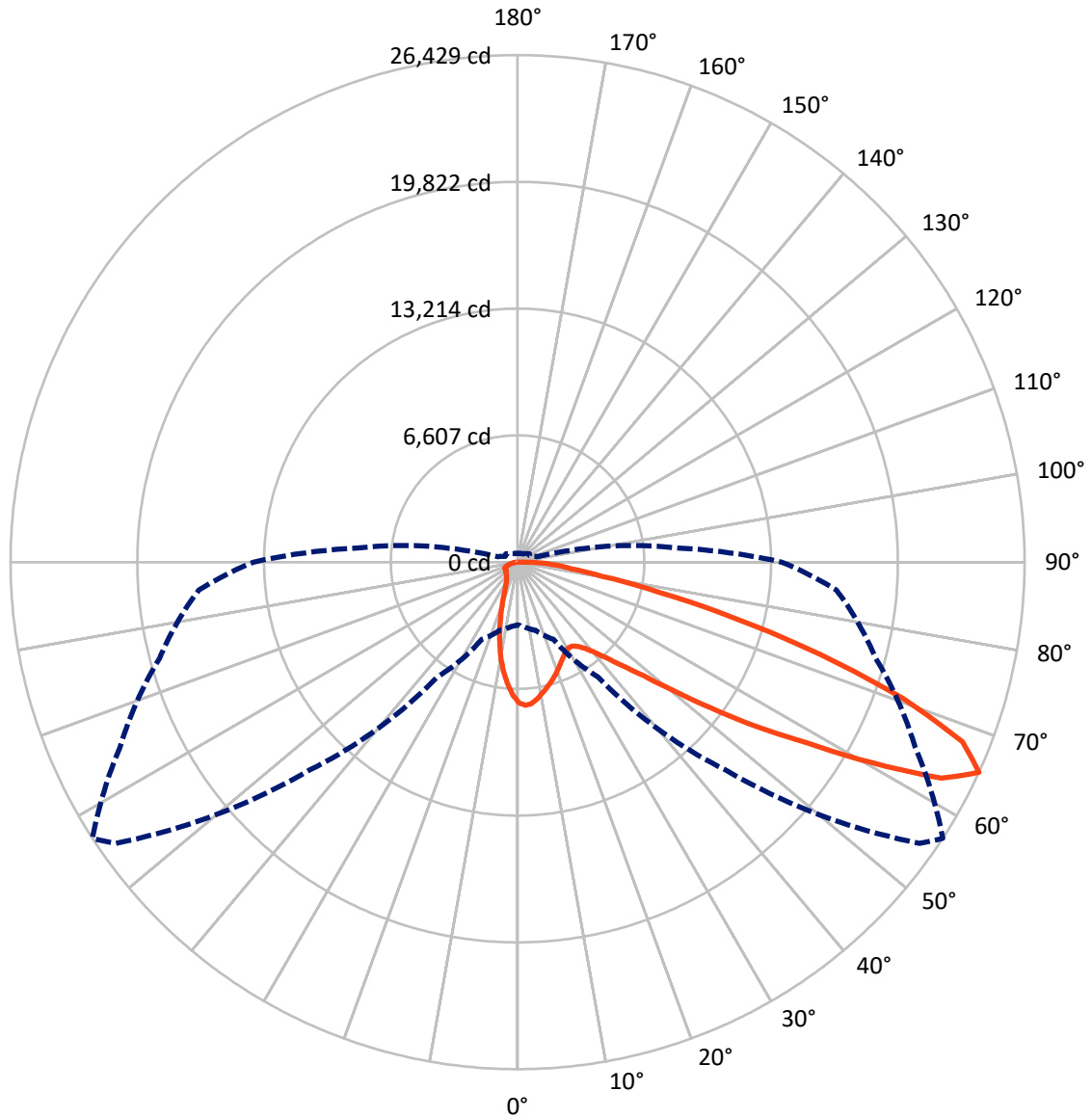
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 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	4084.2	0.0	4084.2
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	22547.4	0.0	22547.4
	% Fixture	84.7	0.0	84.7
Total	Lumens	26631.7	0.0	26631.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	613.3	2.3
10°-20°	1319.9	5.0
20°-30°	1706.5	6.4
30°-40°	2296.3	8.6
40°-50°	3661.6	13.7
50°-60°	6467.3	24.3
60°-70°	7114.9	26.7
70°-80°	2976.3	11.2
80°-90°	475.7	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°	26631.7	100.0
0°-180°	26631.7	100.0

Coefficient of Utilization



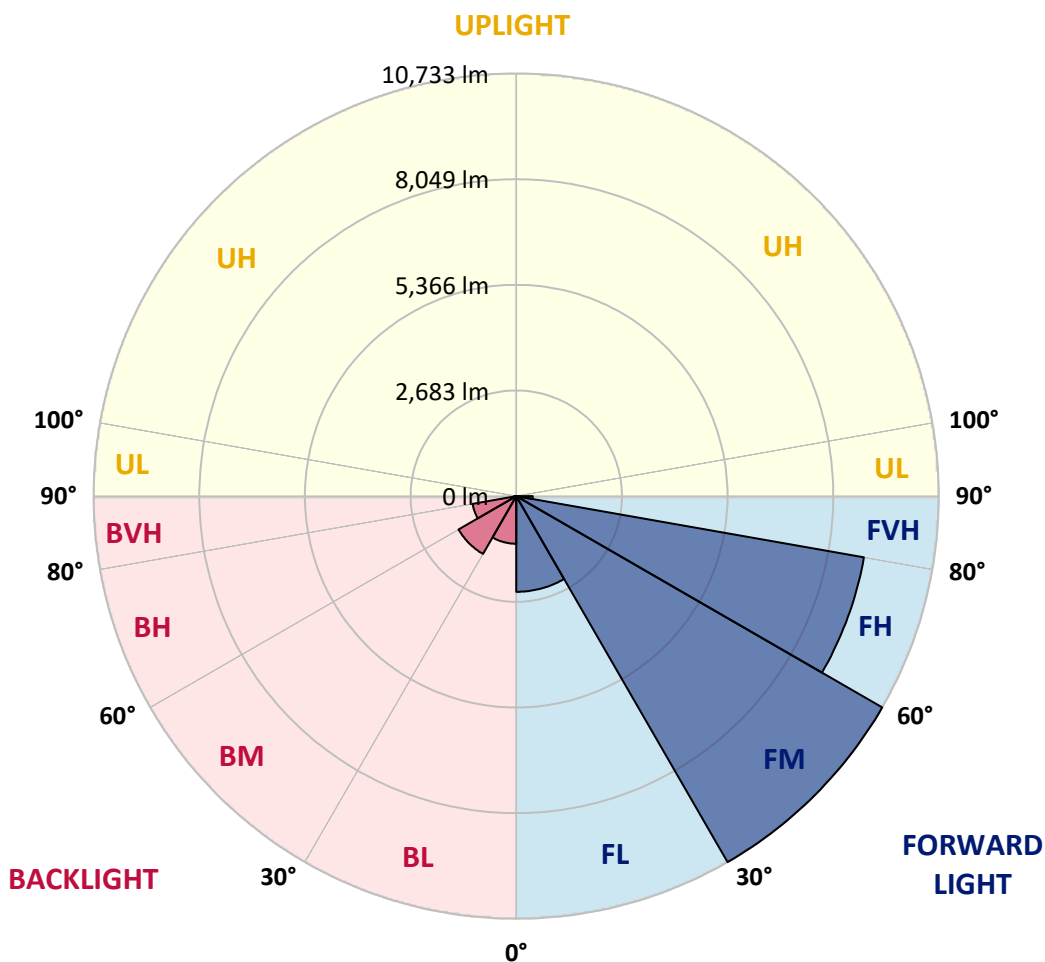
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2430.0	9.1			
FM (30°-60°)	10732.5	40.3			
FH (60°-80°)	8965.0	33.7			G4/12000
FVH (80°-90°)	419.9	1.6			G3/500
BL (0°-30°)	1209.6	4.5	B3/2500		
BM (30°-60°)	1692.7	6.4	B2/2500		
BH (60°-80°)	1126.1	4.2	B3/2500		G3/2500
BVH (80°-90°)	55.8	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°	7323.3	7323.3	7323.3	7323.3	7323.3	7323.3	7323.3	7323.3	7323.3	7323.3	7323.3
2.5°	7521.1	7533.1	7533.1	7557.1	7476.2	7515.1	7509.1	7473.2	7485.1	7422.2	7359.3
5°	7308.4	7299.4	7347.3	7353.3	7416.2	7434.2	7449.2	7425.2	7431.2	7293.4	7233.4
7.5°	6763.0	6760.0	6840.9	6909.8	7041.7	7164.5	7245.4	7221.5	7254.4	7167.5	7026.7
10°	6115.8	6184.7	6268.6	6337.5	6580.2	6736.0	6945.8	6966.8	7092.6	7071.6	6816.9
12.5°	5630.3	5660.3	5723.2	5921.0	6142.7	6400.4	6700.1	6727.0	6849.9	6909.8	6688.1
15°	5231.8	5258.8	5339.7	5486.5	5735.2	6040.9	6421.4	6490.3	6736.0	6757.0	6520.3
17.5°	4941.2	4962.1	5016.1	5162.9	5366.6	5759.2	6118.8	6241.6	6565.2	6667.1	6346.5
20°	4827.3	4782.3	4812.3	4905.2	5109.0	5411.6	5876.0	5983.9	6397.4	6598.2	6181.7
22.5°	4776.3	4737.4	4755.4	4749.4	4911.2	5126.9	5615.4	5729.2	6238.6	6517.3	6034.9
25°	4815.3	4815.3	4797.3	4782.3	4800.3	4941.2	5333.7	5510.5	6025.9	6448.4	5885.0
27.5°	5025.1	4944.1	4953.1	4890.2	4872.2	4872.2	5207.8	5312.7	5956.9	6409.4	5762.2
30°	5159.9	5198.8	5201.8	5109.0	5016.1	4848.3	5091.0	5192.9	5900.0	6457.4	5690.3
32.5°	5504.5	5486.5	5435.6	5417.6	5279.8	5091.0	5147.9	5216.8	5867.1	6565.2	5711.2
35°	5849.1	5840.1	5843.1	5834.1	5690.3	5411.6	5300.7	5393.6	5927.0	6754.0	5783.2
37.5°	6205.7	6229.6	6331.5	6331.5	6178.7	5876.0	5729.2	5702.3	6145.7	7062.6	5954.0
40°	6562.2	6622.2	6751.0	6954.8	6739.0	6457.4	6220.6	6178.7	6409.4	7476.2	6364.5
42.5°	6903.8	7002.7	7257.4	7560.1	7488.1	7206.5	6891.8	6843.9	6951.8	8090.4	6936.8
45°	7341.3	7425.2	7826.7	8291.2	8390.1	8141.4	7772.8	7733.8	7727.9	8989.4	7724.9
47.5°	8006.5	8096.4	8497.9	8965.4	9271.0	9310.0	8896.5	8854.5	8710.7	10202.9	8878.5
50°	8839.5	8986.4	9325.0	9870.3	10313.8	10730.3	10613.4	10490.6	10208.9	11614.3	10340.8
52.5°	9447.8	9627.6	10086.1	10784.2	11566.3	12228.5	12648.0	12648.0	12000.8	13163.4	12099.7
55°	9609.6	9717.5	10295.8	11305.6	12645.0	14320.1	15198.0	15132.1	14134.3	14793.5	14146.3
57.5°	8965.4	9106.2	9807.4	10865.1	13211.4	16276.7	17730.0	17745.0	16465.5	16687.3	16165.9
60°	7191.5	7236.4	8063.5	9477.8	12666.0	17852.9	21187.9	21244.9	19117.4	18374.3	17193.7
62.5°	4971.1	5114.9	5738.2	6978.7	10493.6	17676.1	24523.0	24804.6	21241.9	19264.2	17355.5
65°	3272.1	3359.0	3691.6	4446.7	7305.4	15320.9	25559.7	26428.7	22865.9	19315.1	16678.3
67.5°	2373.2	2388.2	2487.1	2876.6	4389.8	11018.0	23788.8	25014.4	23474.2	18889.6	15090.1
70°	1917.7	1929.7	1965.7	2214.4	2834.6	6894.8	19402.0	21322.8	21649.4	16873.0	12153.6
72.5°	1558.2	1573.1	1618.1	1851.8	2337.2	3835.5	14188.2	16528.4	17610.2	12483.2	8078.4
75°	1225.5	1237.5	1345.4	1576.1	2196.4	2633.9	9411.9	11704.1	11851.0	7296.4	3781.5
77.5°	839.0	860.0	991.8	1336.4	2067.6	2304.3	5867.1	7497.1	6727.0	2855.6	1300.5
80°	533.4	563.3	641.2	1012.8	1827.8	2199.4	3649.7	4476.7	2945.5	976.8	626.3
82.5°	314.6	344.6	422.5	656.2	1435.3	2040.6	2571.0	2801.7	1381.4	500.4	377.6
85°	173.8	194.8	254.7	395.5	842.0	1812.9	2058.6	2010.6	791.1	266.7	236.7
87.5°	56.9	65.9	92.9	158.8	347.6	854.0	1234.5	1159.6	410.5	122.9	92.9
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°	7323.3	7323.3	7323.3	7323.3	7323.3	7323.3	7323.3	7323.3	7323.3	7323.3	7323.3
2.5°	7317.3	7308.4	7173.5	7071.6	6897.8	6754.0	6697.1	6619.2	6616.2	6559.2	6544.3
5°	7140.5	7047.7	6840.9	6643.1	6334.5	6127.7	5939.0	5807.1	5753.2	5636.3	5609.4
7.5°	6912.8	6790.0	6472.3	6100.8	5738.2	5414.6	5120.9	4827.3	4662.5	4605.5	4542.6
10°	6676.1	6460.4	5989.9	5573.4	5067.0	4569.6	4108.1	3694.6	3469.9	3311.1	3242.2
12.5°	6487.3	6199.7	5600.4	4977.1	4308.9	3643.7	3107.3	2672.8	2418.1	2298.3	2244.3
15°	6274.6	5894.0	5174.9	4386.8	3553.8	2798.7	2274.3	1932.7	1830.8	1773.9	1764.9
17.5°	6049.8	5609.4	4713.4	3805.5	2816.7	2106.5	1767.9	1630.1	1585.1	1561.2	1549.2
20°	5840.1	5354.7	4240.0	3158.3	2205.4	1690.0	1531.2	1459.3	1456.3	1468.3	1465.3
22.5°	5543.4	5022.1	3772.5	2559.0	1761.9	1471.3	1369.4	1351.4	1369.4	1384.4	1390.4
25°	5375.6	4749.4	3251.2	2031.6	1456.3	1306.5	1273.5	1267.5	1294.5	1312.4	1309.5
27.5°	5201.8	4467.7	2765.7	1627.1	1276.5	1189.6	1183.6	1189.6	1216.6	1243.5	1240.5
30°	5067.0	4243.0	2310.3	1360.4	1138.7	1105.7	1099.7	1105.7	1120.7	1123.7	1123.7
32.5°	4956.1	3976.3	1923.7	1180.6	1054.8	1027.8	1033.8	1030.8	1033.8	1036.8	1039.8
35°	4890.2	3817.5	1606.1	1069.7	985.8	964.9	961.9	952.9	955.9	958.9	955.9
37.5°	5031.0	3739.6	1354.4	991.8	937.9	919.9	913.9	907.9	898.9	898.9	898.9
40°	5243.8	3697.6	1201.6	940.9	901.9	881.0	863.0	857.0	857.0	860.0	863.0
42.5°	5666.3	3766.5	1096.7	901.9	857.0	833.0	815.0	818.0	827.0	836.0	830.0
45°	6277.6	3976.3	1048.8	872.0	830.0	797.1	785.1	782.1	791.1	806.0	818.0
47.5°	7077.6	4302.9	1030.8	845.0	812.0	767.1	752.1	761.1	773.1	794.1	785.1
50°	8387.1	5037.0	1045.8	821.0	785.1	752.1	734.1	725.1	734.1	749.1	755.1
52.5°	10098.0	6370.5	1102.7	809.0	767.1	740.1	710.2	695.2	704.2	716.2	716.2
55°	12144.6	8192.3	1261.5	794.1	737.1	722.1	689.2	659.2	665.2	665.2	662.2
57.5°	13948.5	9567.7	1450.3	773.1	719.1	698.2	656.2	620.3	614.3	617.3	620.3
60°	14757.5	9933.2	1540.2	767.1	719.1	668.2	611.3	575.3	566.3	560.3	560.3
62.5°	14616.7	9301.0	1357.4	740.1	737.1	644.2	569.3	530.4	518.4	506.4	509.4
65°	13765.7	8399.1	1069.7	704.2	740.1	629.3	527.4	488.4	467.4	452.5	449.5
67.5°	12210.5	7170.5	848.0	677.2	710.2	602.3	491.4	446.5	428.5	413.5	407.5
70°	9552.7	5621.3	737.1	641.2	638.2	536.4	449.5	410.5	383.5	365.6	365.6
72.5°	6193.7	3553.8	632.3	569.3	551.3	449.5	389.5	365.6	344.6	329.6	329.6
75°	2804.7	1651.0	509.4	476.4	449.5	359.6	329.6	317.6	299.6	284.7	284.7
77.5°	1006.8	704.2	380.5	374.6	335.6	278.7	266.7	257.7	245.7	230.7	230.7
80°	563.3	446.5	284.7	272.7	233.7	206.8	191.8	191.8	185.8	176.8	173.8
82.5°	356.6	290.7	209.8	182.8	152.8	137.8	131.8	128.8	125.9	113.9	110.9
85°	224.7	197.8	137.8	107.9	89.9	68.9	65.9	62.9	56.9	50.9	50.9
87.5°	101.9	113.9	53.9	33.0	24.0	15.0	9.0	3.0	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)