

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: P480632

Luminaire Tested: **IFLD-S-SA6E-827-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480632
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6E-827-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (96) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

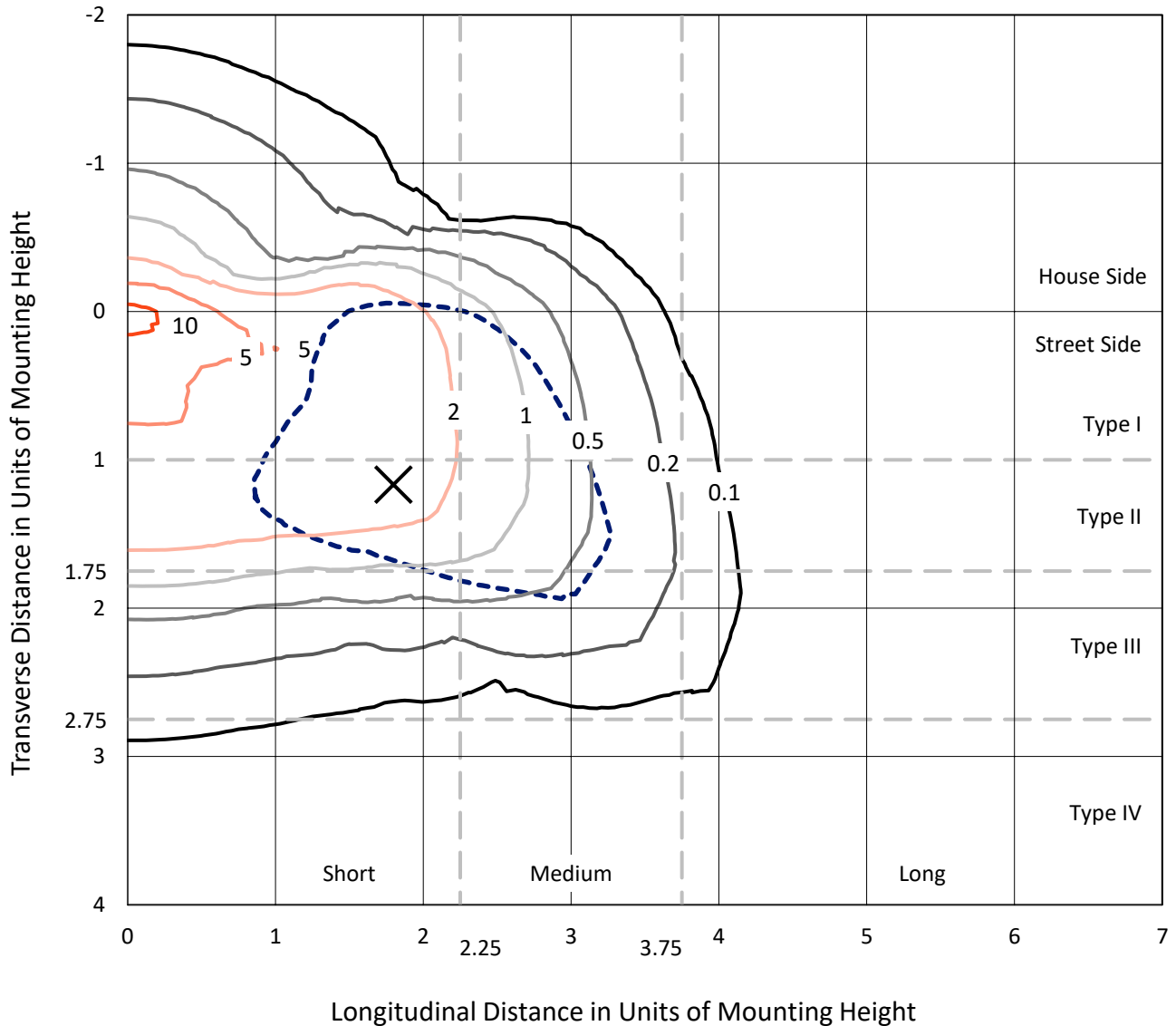
Lumens per Lamp: N/A
Luminaire Lumens: 38380 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 464.2
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

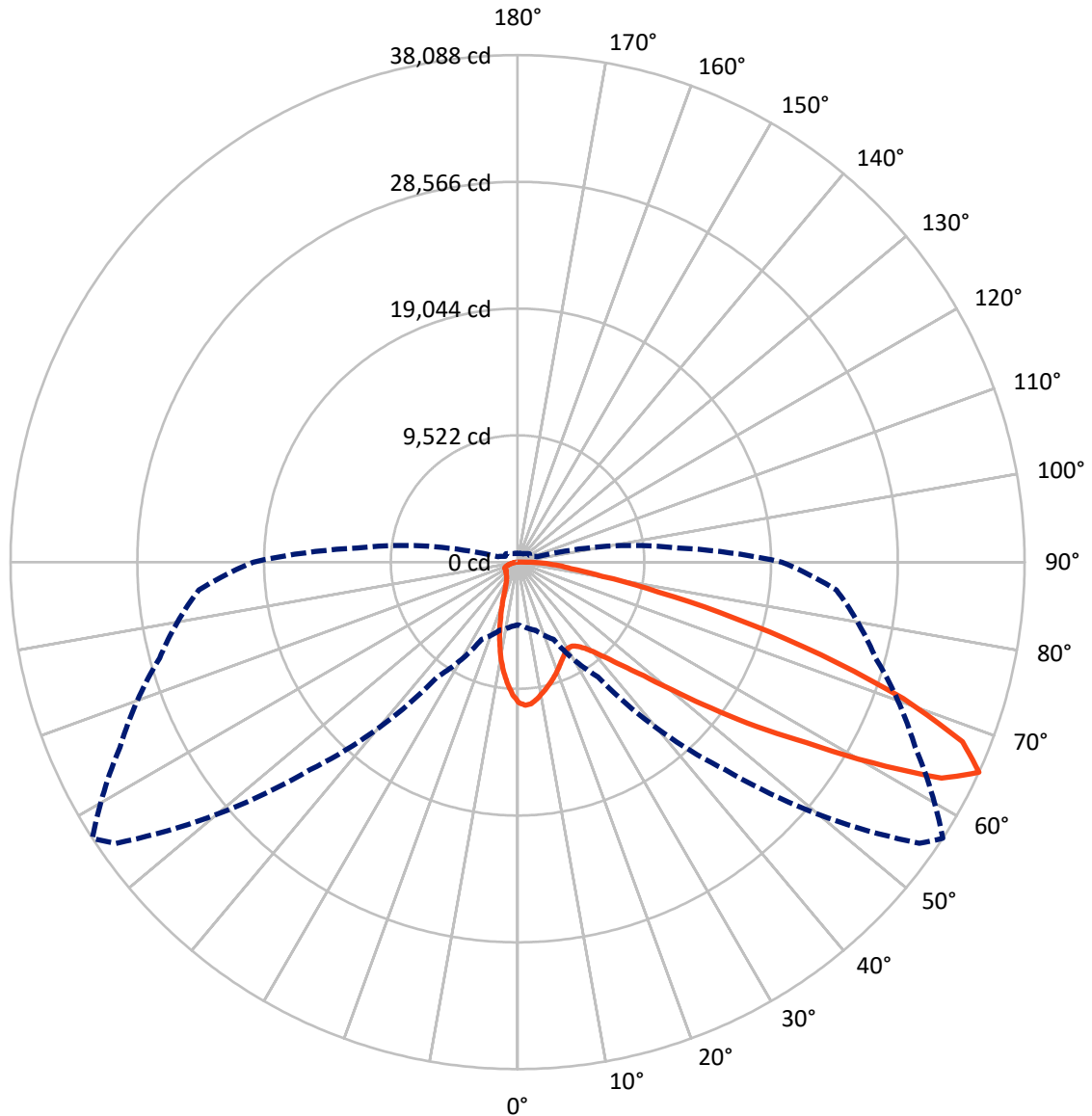
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 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	5885.9	0.0	5885.9
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	32494.1	0.0	32494.1
	% Fixture	84.7	0.0	84.7
Total	Lumens	38380.0	0.0	38380.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	883.8	2.3
10°-20°	1902.1	5.0
20°-30°	2459.3	6.4
30°-40°	3309.3	8.6
40°-50°	5276.9	13.7
50°-60°	9320.3	24.3
60°-70°	10253.6	26.7
70°-80°	4289.2	11.2
80°-90°	685.5	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°	38380.0	100.0
0°-180°	38380.0	100.0

Coefficient of Utilization



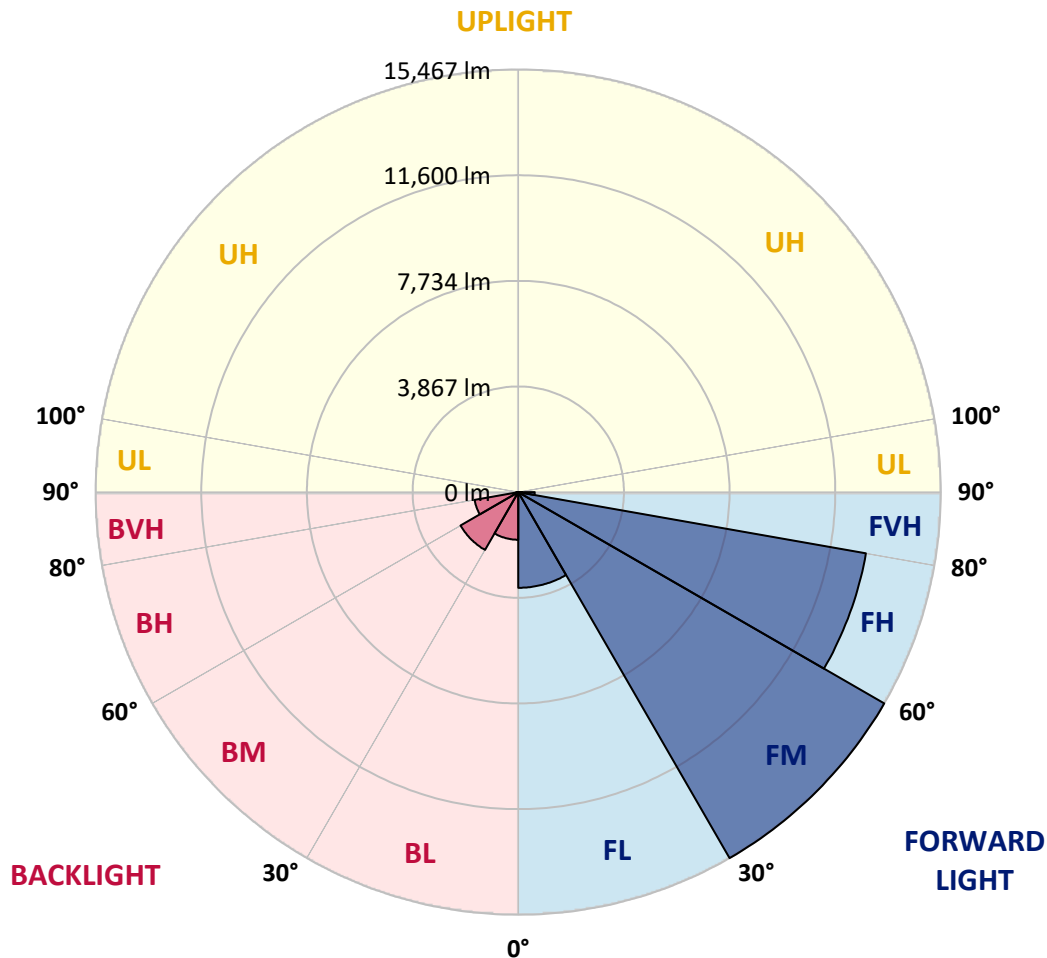
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3502.0	9.1			
FM (30°-60°)	15467.1	40.3			
FH (60°-80°)	12919.9	33.7			G5
FVH (80°-90°)	605.1	1.6			G4/750
BL (0°-30°)	1743.1	4.5	B3/2500		
BM (30°-60°)	2439.4	6.4	B2/2500		
BH (60°-80°)	1622.9	4.2	B3/2500		G3/2500
BVH (80°-90°)	80.4	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°	10554.0	10554.0	10554.0	10554.0	10554.0	10554.0	10554.0	10554.0	10554.0	10554.0	10554.0
2.5°	10839.0	10856.2	10856.2	10890.8	10774.2	10830.3	10821.7	10769.9	10787.1	10696.5	10605.8
5°	10532.4	10519.4	10588.5	10597.1	10687.8	10713.7	10735.3	10700.8	10709.4	10510.8	10424.4
7.5°	9746.4	9742.1	9858.7	9958.0	10148.0	10325.1	10441.7	10407.1	10454.6	10329.4	10126.4
10°	8813.7	8913.0	9033.9	9133.2	9483.0	9707.6	10009.9	10040.1	10221.4	10191.2	9824.2
12.5°	8114.1	8157.3	8248.0	8533.0	8852.5	9223.9	9655.8	9694.6	9871.7	9958.0	9638.5
15°	7539.8	7578.6	7695.2	7906.8	8265.3	8705.7	9254.1	9353.5	9707.6	9737.8	9396.7
17.5°	7120.9	7151.1	7228.9	7440.5	7734.1	8299.8	8818.0	8995.0	9461.4	9608.2	9146.2
20°	6956.8	6892.0	6935.2	7069.1	7362.7	7798.9	8468.2	8623.7	9219.6	9508.9	8908.7
22.5°	6883.4	6827.3	6853.2	6844.5	7077.7	7388.6	8092.5	8256.6	8990.7	9392.3	8697.1
25°	6939.5	6939.5	6913.6	6892.0	6917.9	7120.9	7686.6	7941.4	8684.1	9293.0	8481.2
27.5°	7241.8	7125.2	7138.2	7047.5	7021.6	7021.6	7505.2	7656.4	8584.8	9236.9	8304.1
30°	7436.1	7492.3	7496.6	7362.7	7228.9	6987.0	7336.8	7483.6	8502.8	9306.0	8200.5
32.5°	7932.7	7906.8	7833.4	7807.5	7608.9	7336.8	7418.9	7518.2	8455.3	9461.4	8230.7
35°	8429.3	8416.4	8420.7	8407.8	8200.5	7798.9	7639.1	7773.0	8541.6	9733.5	8334.3
37.5°	8943.2	8977.8	9124.6	9124.6	8904.4	8468.2	8256.6	8217.8	8856.9	10178.3	8580.5
40°	9457.1	9543.5	9729.2	10022.8	9711.9	9306.0	8964.8	8904.4	9236.9	10774.2	9172.1
42.5°	9949.4	10091.9	10459.0	10895.1	10791.5	10385.5	9932.1	9863.0	10018.5	11659.4	9996.9
45°	10579.9	10700.8	11279.4	11948.8	12091.3	11732.9	11201.7	11145.6	11136.9	12954.9	11132.6
47.5°	11538.5	11668.1	12246.7	12920.4	13360.9	13417.0	12821.1	12760.6	12553.3	14703.9	12795.2
50°	12739.0	12950.6	13438.6	14224.5	14863.6	15463.9	15295.5	15118.4	14712.5	16737.8	14902.5
52.5°	13615.6	13874.7	14535.4	15541.6	16668.7	17623.0	18227.6	18227.6	17294.8	18970.4	17437.4
55°	13848.8	14004.3	14837.7	16293.0	18223.3	20637.2	21902.5	21807.5	20369.5	21319.5	20386.8
57.5°	12920.4	13123.4	14133.8	15658.2	19039.4	23457.1	25551.5	25573.1	23729.1	24048.7	23297.3
60°	10364.0	10428.7	11620.6	13658.8	18253.5	25728.5	30534.8	30616.8	27550.8	26479.9	24778.5
62.5°	7164.1	7371.4	8269.6	10057.4	15122.7	25473.7	35341.1	35747.0	30612.5	27762.4	25011.7
65°	4715.6	4840.8	5320.2	6408.4	10528.0	22079.5	36835.2	38087.5	32953.1	27835.9	24035.7
67.5°	3420.1	3441.7	3584.2	4145.6	6326.3	15878.4	34283.1	36049.3	33829.7	27222.7	21747.0
70°	2763.7	2781.0	2832.8	3191.2	4085.1	9936.4	27961.1	30729.1	31199.8	24316.4	17515.1
72.5°	2245.5	2267.1	2331.9	2668.7	3368.3	5527.4	20447.2	23819.8	25378.7	17990.1	11642.2
75°	1766.2	1783.5	1938.9	2271.4	3165.3	3795.8	13563.8	16867.3	17078.9	10515.1	5449.7
77.5°	1209.1	1239.4	1429.4	1926.0	2979.6	3320.8	8455.3	10804.4	9694.6	4115.4	1874.1
80°	768.7	811.8	924.1	1459.6	2634.2	3169.6	5259.7	6451.6	4244.9	1407.8	902.5
82.5°	453.4	496.6	608.9	945.7	2068.5	2940.8	3705.1	4037.6	1990.7	721.2	544.1
85°	250.5	280.7	367.1	570.0	1213.4	2612.6	2966.7	2897.6	1140.0	384.3	341.1
87.5°	82.0	95.0	133.9	228.9	500.9	1230.7	1779.1	1671.2	591.6	177.1	133.9
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°	10554.0	10554.0	10554.0	10554.0	10554.0	10554.0	10554.0	10554.0	10554.0	10554.0	10554.0
2.5°	10545.3	10532.4	10338.0	10191.2	9940.8	9733.5	9651.4	9539.2	9534.8	9452.8	9431.2
5°	10290.5	10156.7	9858.7	9573.7	9128.9	8831.0	8558.9	8368.9	8291.2	8122.7	8083.9
7.5°	9962.4	9785.3	9327.6	8792.1	8269.6	7803.2	7380.0	6956.8	6719.3	6637.2	6546.6
10°	9621.2	9310.3	8632.3	8032.1	7302.3	6585.4	5920.4	5324.5	5000.6	4771.7	4672.4
12.5°	9349.1	8934.6	8070.9	7172.7	6209.7	5251.1	4478.1	3851.9	3484.9	3312.1	3234.4
15°	9042.5	8494.1	7457.7	6322.0	5121.5	4033.3	3277.6	2785.3	2638.5	2556.4	2543.5
17.5°	8718.7	8083.9	6792.7	5484.3	4059.2	3035.8	2547.8	2349.2	2284.4	2249.8	2232.6
20°	8416.4	7716.8	6110.4	4551.5	3178.3	2435.5	2206.7	2103.0	2098.7	2116.0	2111.7
22.5°	7988.9	7237.5	5436.8	3687.8	2539.2	2120.3	1973.5	1947.6	1973.5	1995.1	2003.7
25°	7747.1	6844.5	4685.4	2927.8	2098.7	1882.8	1835.3	1826.6	1865.5	1891.4	1887.1
27.5°	7496.6	6438.6	3985.8	2344.8	1839.6	1714.4	1705.7	1714.4	1753.2	1792.1	1787.8
30°	7302.3	6114.7	3329.4	1960.5	1641.0	1593.5	1584.8	1593.5	1615.0	1619.4	1619.4
32.5°	7142.5	5730.4	2772.4	1701.4	1520.0	1481.2	1489.8	1485.5	1489.8	1494.1	1498.5
35°	7047.5	5501.5	2314.6	1541.6	1420.7	1390.5	1386.2	1373.2	1377.5	1381.9	1377.5
37.5°	7250.4	5389.3	1951.9	1429.4	1351.6	1325.7	1317.1	1308.4	1295.5	1295.5	1295.5
40°	7557.0	5328.8	1731.6	1356.0	1299.8	1269.6	1243.7	1235.0	1235.0	1239.4	1243.7
42.5°	8165.9	5428.1	1580.5	1299.8	1235.0	1200.5	1174.6	1178.9	1191.9	1204.8	1196.2
45°	9046.9	5730.4	1511.4	1256.6	1196.2	1148.7	1131.4	1127.1	1140.0	1161.6	1178.9
47.5°	10199.9	6201.1	1485.5	1217.8	1170.3	1105.5	1083.9	1096.9	1114.1	1144.4	1131.4
50°	12087.0	7259.1	1507.1	1183.2	1131.4	1083.9	1058.0	1045.0	1058.0	1079.6	1088.2
52.5°	14552.7	9180.7	1589.1	1165.9	1105.5	1066.6	1023.4	1001.8	1014.8	1032.1	1032.1
55°	17502.1	11806.3	1818.0	1144.4	1062.3	1040.7	993.2	950.0	958.7	958.7	954.3
57.5°	20101.8	13788.4	2090.1	1114.1	1036.4	1006.2	945.7	893.9	885.3	889.6	893.9
60°	21267.7	14315.2	2219.6	1105.5	1036.4	963.0	880.9	829.1	816.2	807.5	807.5
62.5°	21064.7	13404.0	1956.2	1066.6	1062.3	928.4	820.5	764.3	747.1	729.8	734.1
65°	19838.3	12104.2	1541.6	1014.8	1066.6	906.8	760.0	703.9	673.7	652.1	647.7
67.5°	17597.1	10333.7	1222.1	975.9	1023.4	868.0	708.2	643.4	617.5	595.9	587.3
70°	13766.8	8101.2	1062.3	924.1	919.8	773.0	647.7	591.6	552.7	526.8	526.8
72.5°	8926.0	5121.5	911.2	820.5	794.6	647.7	561.4	526.8	496.6	475.0	475.0
75°	4041.9	2379.4	734.1	686.6	647.7	518.2	475.0	457.7	431.8	410.2	410.2
77.5°	1451.0	1014.8	548.4	539.8	483.7	401.6	384.3	371.4	354.1	332.5	332.5
80°	811.8	643.4	410.2	393.0	336.8	298.0	276.4	276.4	267.7	254.8	250.5
82.5°	513.9	418.9	302.3	263.4	220.2	198.6	190.0	185.7	181.4	164.1	159.8
85°	323.9	285.0	198.6	155.5	129.5	99.3	95.0	90.7	82.0	73.4	73.4
87.5°	146.8	164.1	77.7	47.5	34.5	21.6	13.0	4.3	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)