

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: P480646

Luminaire Tested: **IFLD-L-SA8D-827-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480646
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-827-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (128) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

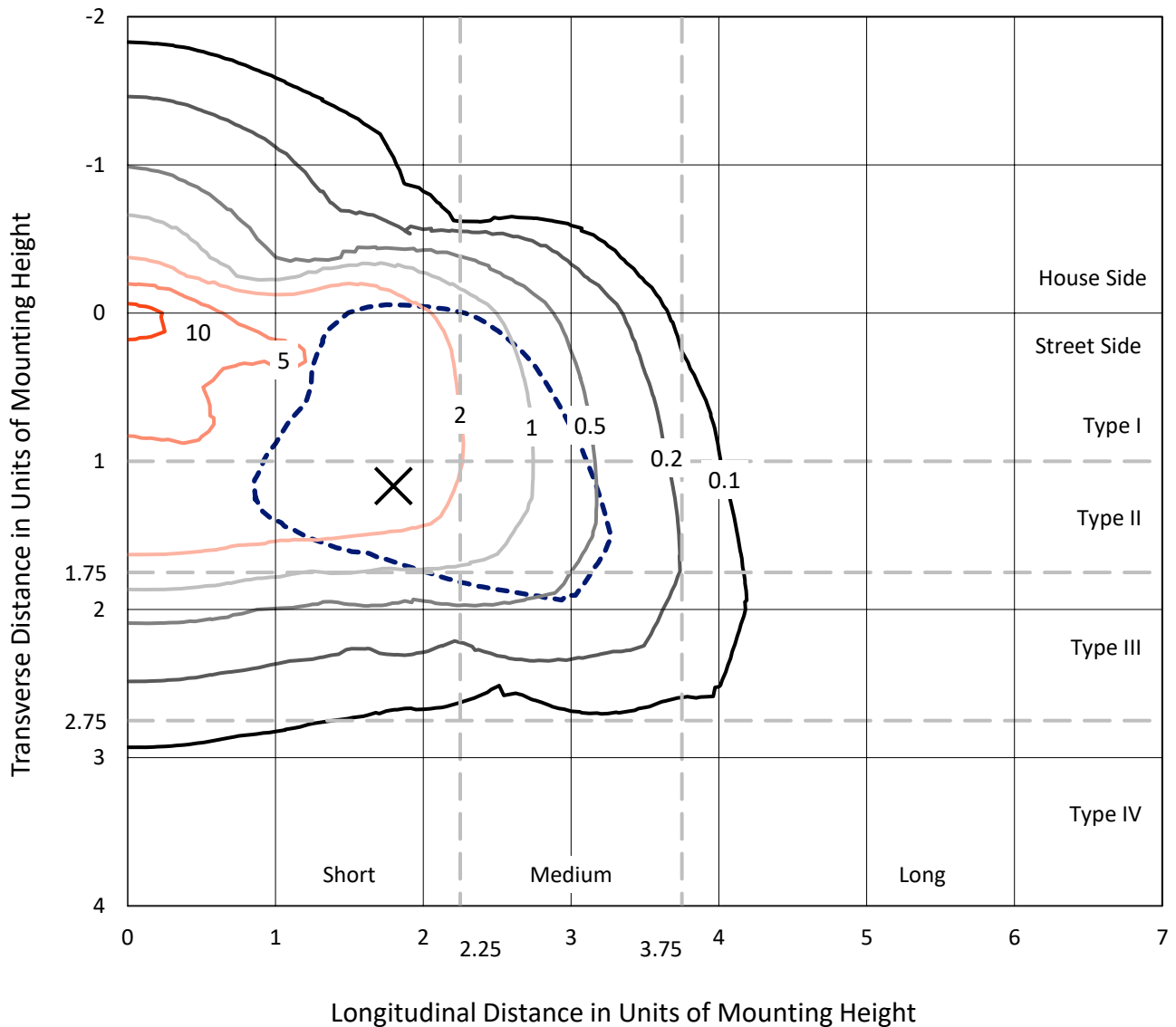
Lumens per Lamp: N/A
Luminaire Lumens: 40436.1 lumens
Efficiency: N/A
Efficacy: 82.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 488.3
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

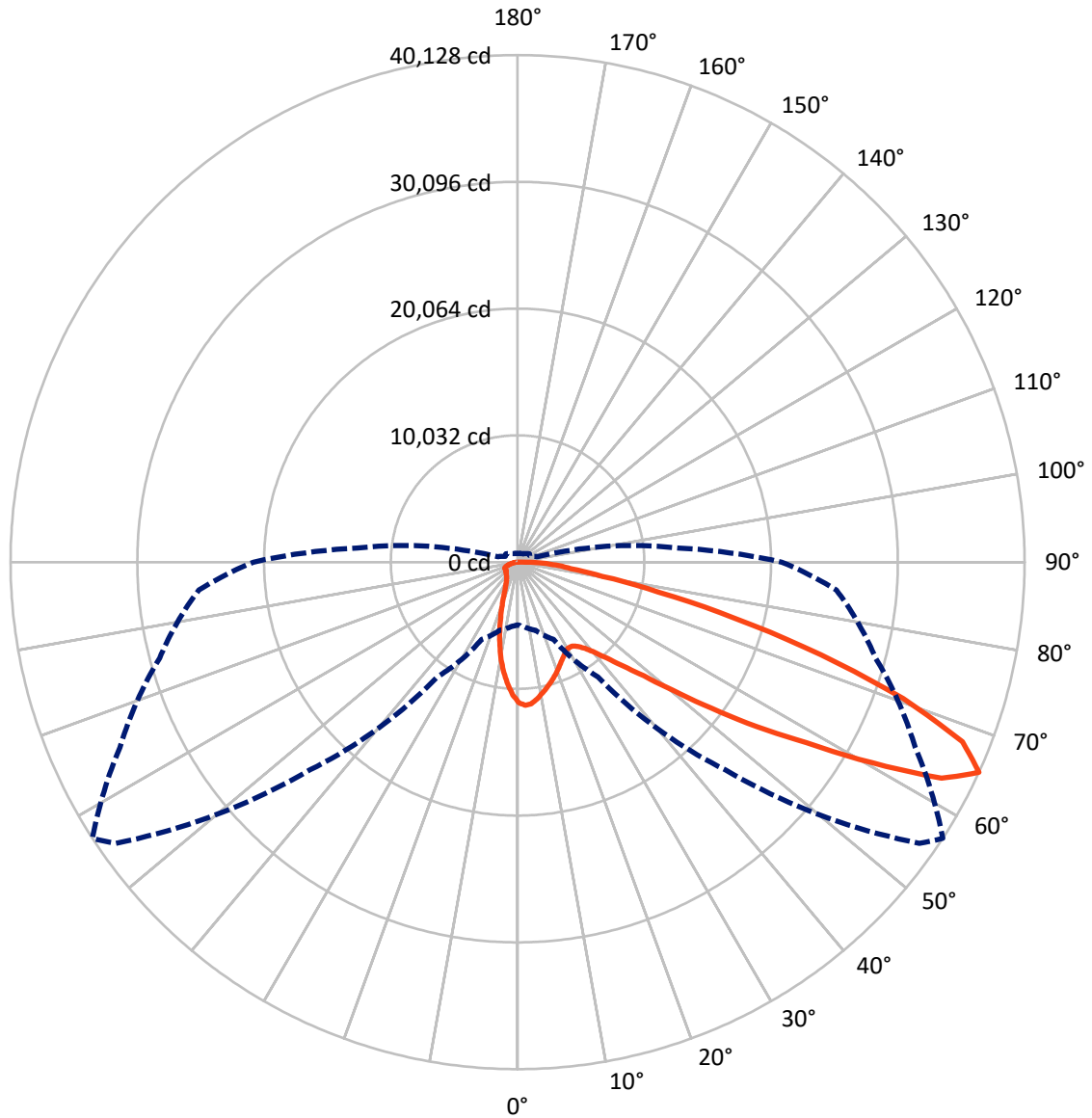
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.4 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	6201.3	0.0	6201.3
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	34234.9	0.0	34234.9
	% Fixture	84.7	0.0	84.7
Total	Lumens	40436.1	0.0	40436.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	931.2	2.3
10°-20°	2004.0	5.0
20°-30°	2591.0	6.4
30°-40°	3486.6	8.6
40°-50°	5559.6	13.7
50°-60°	9819.6	24.3
60°-70°	10802.9	26.7
70°-80°	4519.0	11.2
80°-90°	722.2	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°	40436.1	100.0
0°-180°	40436.1	100.0

Coefficient of Utilization



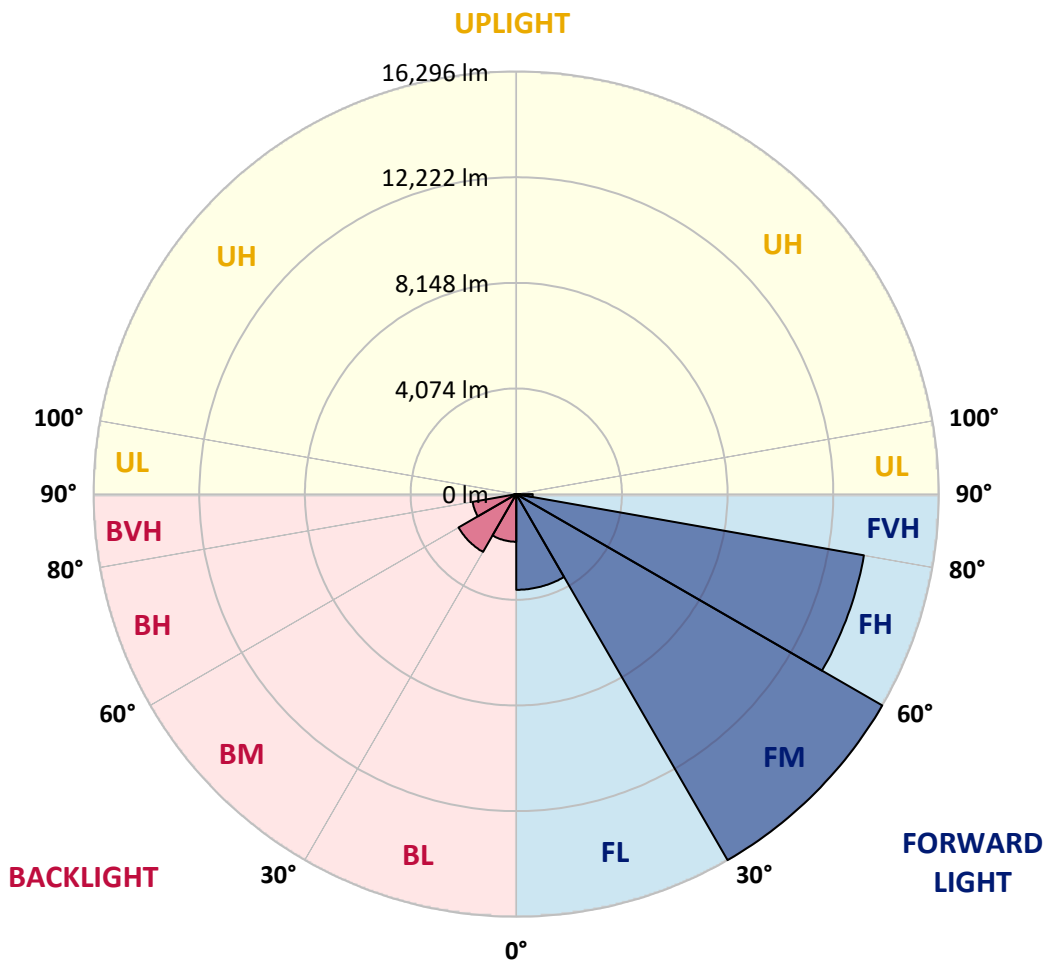
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3689.6	9.1			
FM (30°-60°)	16295.7	40.3			
FH (60°-80°)	13612.0	33.7			G5
FVH (80°-90°)	637.5	1.6			G4/750
BL (0°-30°)	1836.5	4.5	B3/2500		
BM (30°-60°)	2570.1	6.4	B3/5000		
BH (60°-80°)	1709.9	4.2	B3/2500		G3/2500
BVH (80°-90°)	84.7	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°	11119.4	11119.4	11119.4	11119.4	11119.4	11119.4	11119.4	11119.4	11119.4	11119.4	11119.4
2.5°	11419.6	11437.8	11437.8	11474.2	11351.4	11410.5	11401.4	11346.8	11365.0	11269.5	11174.0
5°	11096.6	11083.0	11155.8	11164.9	11260.4	11287.7	11310.4	11274.0	11283.1	11073.9	10982.9
7.5°	10268.6	10264.0	10386.9	10491.5	10691.7	10878.2	11001.1	10964.7	11014.7	10882.8	10668.9
10°	9285.8	9390.5	9517.9	9622.5	9991.0	10227.6	10546.1	10578.0	10769.0	10737.2	10350.5
12.5°	8548.8	8594.3	8689.8	8990.1	9326.8	9718.1	10173.0	10214.0	10400.5	10491.5	10154.8
15°	7943.7	7984.6	8107.5	8330.4	8708.0	9172.1	9749.9	9854.6	10227.6	10259.5	9900.1
17.5°	7502.4	7534.2	7616.1	7839.1	8148.4	8744.4	9290.4	9476.9	9968.3	10123.0	9636.2
20°	7329.5	7261.3	7306.7	7447.8	7757.2	8216.7	8921.9	9085.7	9713.5	10018.3	9385.9
22.5°	7252.2	7193.0	7220.3	7211.2	7456.9	7784.5	8526.1	8698.9	9472.4	9895.5	9163.0
25°	7311.3	7311.3	7284.0	7261.3	7288.5	7502.4	8098.4	8366.8	9149.4	9790.9	8935.5
27.5°	7629.8	7506.9	7520.6	7425.0	7397.7	7397.7	7907.3	8066.5	9044.7	9731.7	8749.0
30°	7834.5	7893.7	7898.2	7757.2	7616.1	7361.3	7729.9	7884.6	8958.3	9804.5	8639.8
32.5°	8357.7	8330.4	8253.1	8225.8	8016.5	7729.9	7816.3	7921.0	8908.2	9968.3	8671.6
35°	8880.9	8867.3	8871.8	8858.2	8639.8	8216.7	8048.3	8189.4	8999.2	10254.9	8780.8
37.5°	9422.3	9458.7	9613.4	9613.4	9381.4	8921.9	8698.9	8658.0	9331.3	10723.5	9040.2
40°	9963.7	10054.7	10250.4	10559.8	10232.2	9804.5	9445.1	9381.4	9731.7	11351.4	9663.5
42.5°	10482.4	10632.5	11019.3	11478.8	11369.6	10941.9	10464.2	10391.4	10555.2	12284.1	10532.5
45°	11146.7	11274.0	11883.7	12588.9	12739.0	12361.4	11801.8	11742.7	11733.6	13649.0	11729.0
47.5°	12156.7	12293.2	12902.8	13612.6	14076.6	14135.8	13507.9	13444.2	13225.9	15491.6	13480.6
50°	13421.5	13644.4	14158.5	14986.6	15659.9	16292.3	16114.9	15928.3	15500.7	17634.5	15700.9
52.5°	14345.1	14618.0	15314.1	16374.2	17561.7	18567.1	19204.1	19204.1	18221.4	19986.6	18371.5
55°	14590.7	14754.5	15632.6	17165.9	19199.6	21742.8	23075.9	22975.8	21460.7	22461.7	21478.9
57.5°	13612.6	13826.4	14891.0	16497.1	20059.4	24713.7	26920.3	26943.1	25000.4	25337.0	24545.4
60°	10919.2	10987.4	12243.1	14390.6	19231.4	27106.9	32170.6	32257.1	29026.8	27898.5	26105.9
62.5°	7547.9	7766.3	8712.6	10596.2	15932.9	26838.4	37234.4	37662.1	32252.5	29249.7	26351.6
65°	4968.2	5100.2	5605.2	6751.7	11092.1	23262.4	38808.6	40128.0	34718.4	29327.1	25323.4
67.5°	3603.3	3626.1	3776.2	4367.7	6665.2	16729.1	36119.7	37980.5	35642.0	28681.0	22912.1
70°	2911.8	2930.0	2984.6	3362.2	4304.0	10468.8	29459.0	32375.4	32871.3	25619.1	18453.4
72.5°	2365.8	2388.6	2456.8	2811.7	3548.7	5823.6	21542.6	25095.9	26738.3	18953.9	12265.9
75°	1860.8	1879.0	2042.8	2393.1	3334.9	3999.1	14290.5	17771.0	17993.9	11078.4	5741.7
77.5°	1273.9	1305.8	1505.9	2029.1	3139.3	3498.7	8908.2	11383.2	10214.0	4335.8	1974.6
80°	809.8	855.3	973.6	1537.8	2775.3	3339.4	5541.5	6797.2	4472.3	1483.2	950.9
82.5°	477.7	523.2	641.5	996.4	2179.3	3098.3	3903.6	4253.9	2097.4	759.8	573.3
85°	263.9	295.7	386.7	600.6	1278.5	2752.5	3125.6	3052.8	1201.1	404.9	359.4
87.5°	86.4	100.1	141.0	241.1	527.8	1296.7	1874.5	1760.7	623.3	186.5	141.0
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°	11119.4	11119.4	11119.4	11119.4	11119.4	11119.4	11119.4	11119.4	11119.4	11119.4	11119.4
2.5°	11110.3	11096.6	10891.9	10737.2	10473.3	10254.9	10168.5	10050.2	10045.6	9959.2	9936.4
5°	10841.8	10700.8	10386.9	10086.6	9618.0	9304.0	9017.4	8817.2	8735.3	8557.9	8517.0
7.5°	10496.1	10309.5	9827.3	9263.1	8712.6	8221.2	7775.4	7329.5	7079.3	6992.8	6897.3
10°	10136.6	9809.1	9094.8	8462.4	7693.5	6938.2	6237.6	5609.7	5268.5	5027.4	4922.7
12.5°	9850.0	9413.2	8503.3	7557.0	6542.4	5532.4	4718.0	4058.3	3671.6	3489.6	3407.7
15°	9527.0	8949.2	7857.3	6660.7	5395.9	4249.4	3453.2	2934.5	2779.8	2693.4	2679.7
17.5°	9185.8	8517.0	7156.6	5778.1	4276.7	3198.4	2684.3	2475.0	2406.8	2370.4	2352.2
20°	8867.3	8130.2	6437.8	4795.3	3348.5	2566.0	2324.9	2215.7	2211.1	2229.3	2224.8
22.5°	8416.9	7625.2	5728.0	3885.4	2675.2	2233.9	2079.2	2051.9	2079.2	2101.9	2111.0
25°	8162.1	7211.2	4936.4	3084.7	2211.1	1983.7	1933.6	1924.5	1965.5	1992.7	1988.2
27.5°	7898.2	6783.5	4199.3	2470.5	1938.2	1806.2	1797.1	1806.2	1847.2	1888.1	1883.6
30°	7693.5	6442.3	3507.8	2065.5	1728.9	1678.8	1669.7	1678.8	1701.6	1706.1	1706.1
32.5°	7525.1	6037.4	2920.9	1792.6	1601.5	1560.5	1569.6	1565.1	1569.6	1574.2	1578.7
35°	7425.0	5796.3	2438.6	1624.2	1496.8	1465.0	1460.4	1446.8	1451.3	1455.9	1451.3
37.5°	7638.9	5678.0	2056.4	1505.9	1424.0	1396.7	1387.6	1378.5	1364.9	1364.9	1364.9
40°	7961.9	5614.3	1824.4	1428.6	1369.4	1337.6	1310.3	1301.2	1301.2	1305.8	1310.3
42.5°	8603.4	5718.9	1665.2	1369.4	1301.2	1264.8	1237.5	1242.1	1255.7	1269.4	1260.3
45°	9531.5	6037.4	1592.4	1324.0	1260.3	1210.2	1192.0	1187.5	1201.1	1223.9	1242.1
47.5°	10746.3	6533.3	1565.1	1283.0	1233.0	1164.7	1142.0	1155.6	1173.8	1205.7	1192.0
50°	12734.5	7648.0	1587.8	1246.6	1192.0	1142.0	1114.7	1101.0	1114.7	1137.4	1146.5
52.5°	15332.3	9672.6	1674.3	1228.4	1164.7	1123.8	1078.3	1055.5	1069.2	1087.4	1087.4
55°	18439.8	12438.8	1915.4	1205.7	1119.2	1096.5	1046.4	1000.9	1010.0	1010.0	1005.5
57.5°	21178.7	14527.1	2202.0	1173.8	1091.9	1060.1	996.4	941.8	932.7	937.2	941.8
60°	22407.1	15082.1	2338.5	1164.7	1091.9	1014.6	928.1	873.5	859.9	850.8	850.8
62.5°	22193.2	14122.1	2061.0	1123.8	1119.2	978.2	864.4	805.3	787.1	768.9	773.4
65°	20901.1	12752.7	1624.2	1069.2	1123.8	955.4	800.7	741.6	709.7	687.0	682.4
67.5°	18539.9	10887.3	1287.6	1028.2	1078.3	914.5	746.1	677.9	650.6	627.9	618.8
70°	14504.3	8535.2	1119.2	973.6	969.1	814.4	682.4	623.3	582.4	555.1	555.1
72.5°	9404.1	5395.9	960.0	864.4	837.1	682.4	591.5	555.1	523.2	500.5	500.5
75°	4258.5	2506.9	773.4	723.4	682.4	546.0	500.5	482.3	455.0	432.2	432.2
77.5°	1528.7	1069.2	577.8	568.7	509.6	423.1	404.9	391.3	373.1	350.3	350.3
80°	855.3	677.9	432.2	414.0	354.9	313.9	291.2	291.2	282.1	268.4	263.9
82.5°	541.4	441.3	318.5	277.5	232.0	209.3	200.2	195.6	191.1	172.9	168.3
85°	341.2	300.3	209.3	163.8	136.5	104.6	100.1	95.5	86.4	77.3	77.3
87.5°	154.7	172.9	81.9	50.0	36.4	22.7	13.6	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)