

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: P480552

Luminaire Tested: **IFLD-S-SA6C-750-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480552
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-750-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (96) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

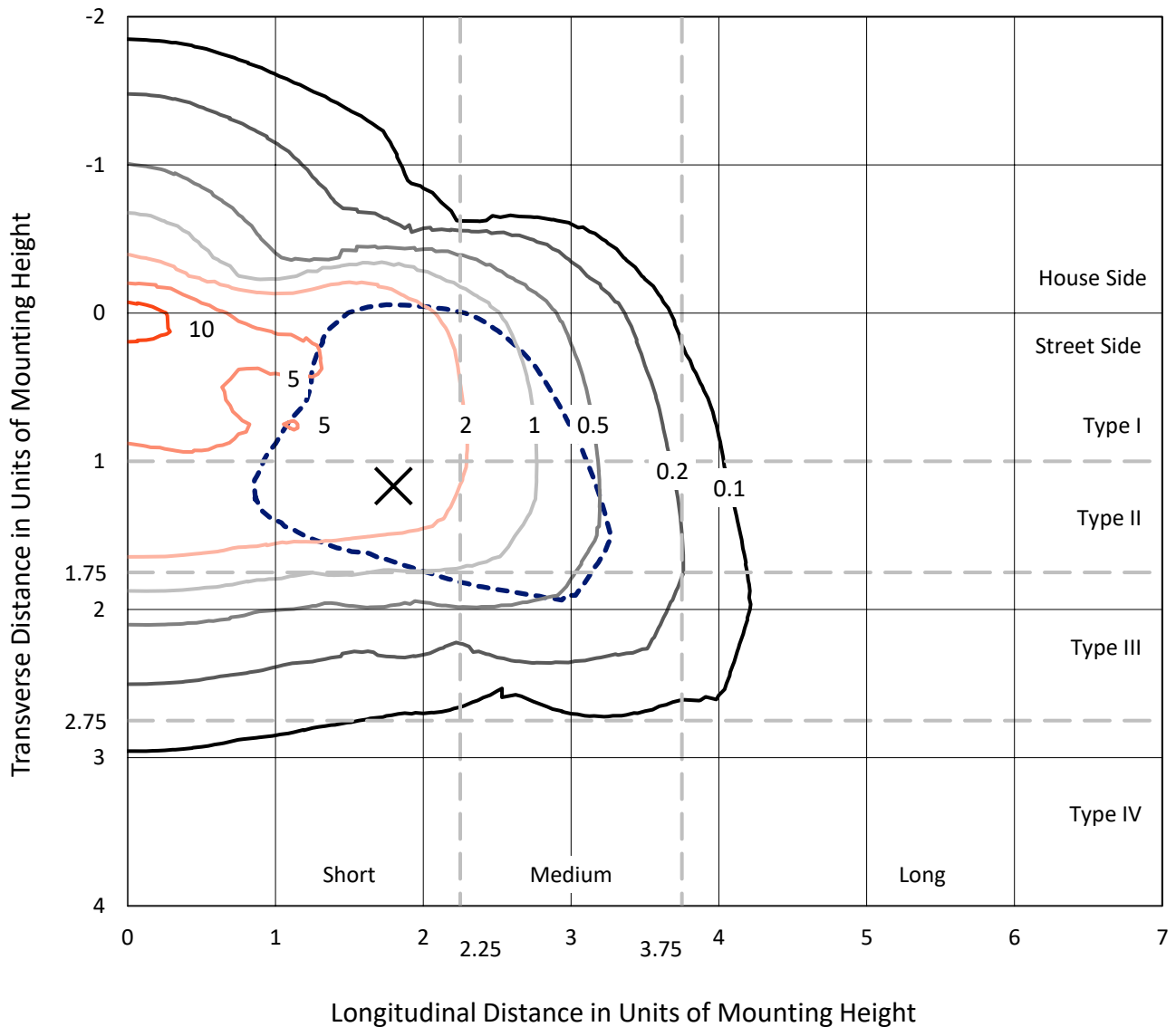
Lumens per Lamp: N/A
Luminaire Lumens: 41939.2 lumens
Efficiency: N/A
Efficacy: 130.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 321.5
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

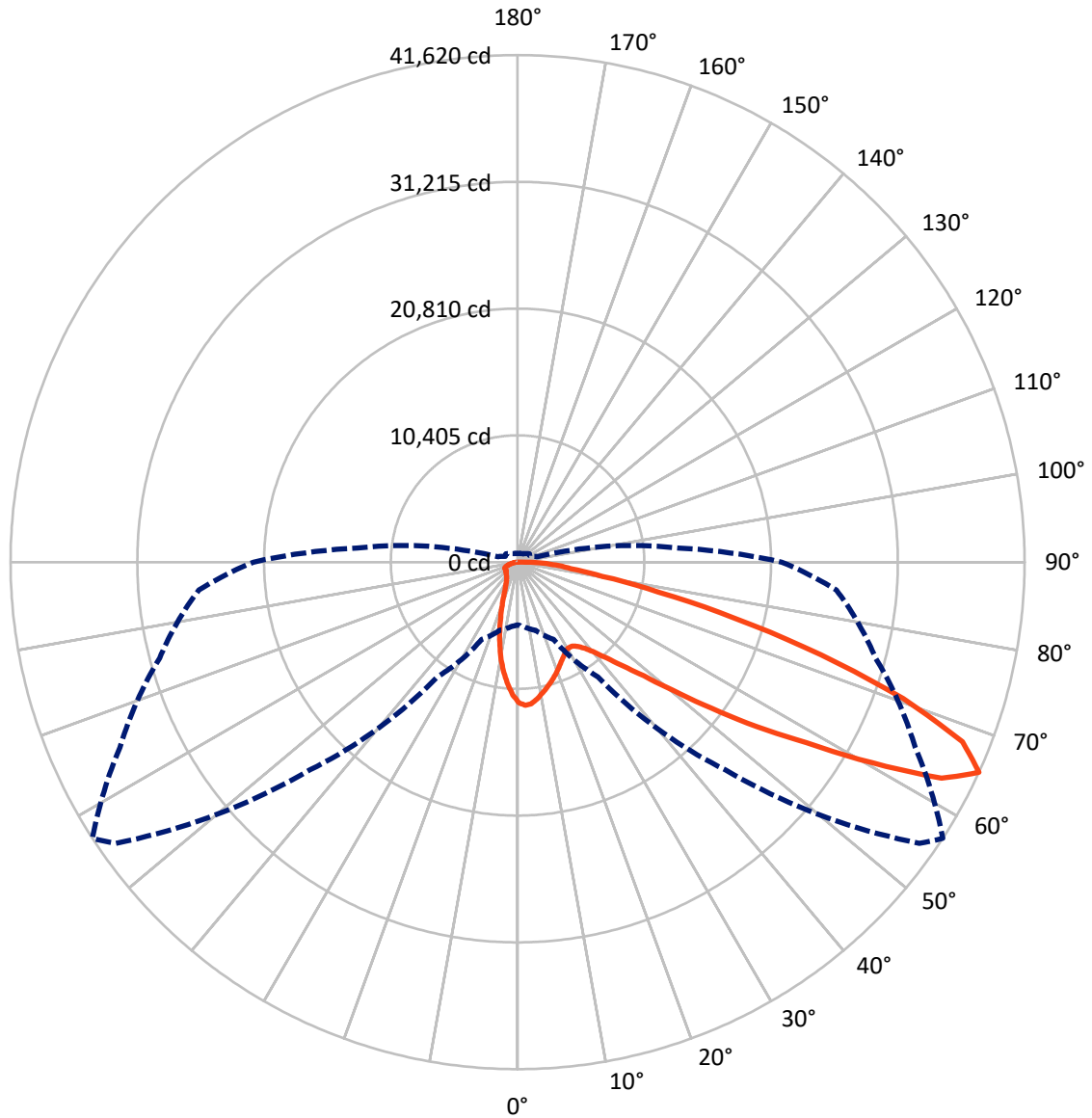
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.8 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	6431.8	0.0	6431.8
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	35507.4	0.0	35507.4
	% Fixture	84.7	0.0	84.7
Total	Lumens	41939.2	0.0	41939.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	965.8	2.3
10°-20°	2078.5	5.0
20°-30°	2687.3	6.4
30°-40°	3616.2	8.6
40°-50°	5766.3	13.7
50°-60°	10184.6	24.3
60°-70°	11204.4	26.7
70°-80°	4687.0	11.2
80°-90°	749.1	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°	41939.2	100.0
0°-180°	41939.2	100.0

Coefficient of Utilization



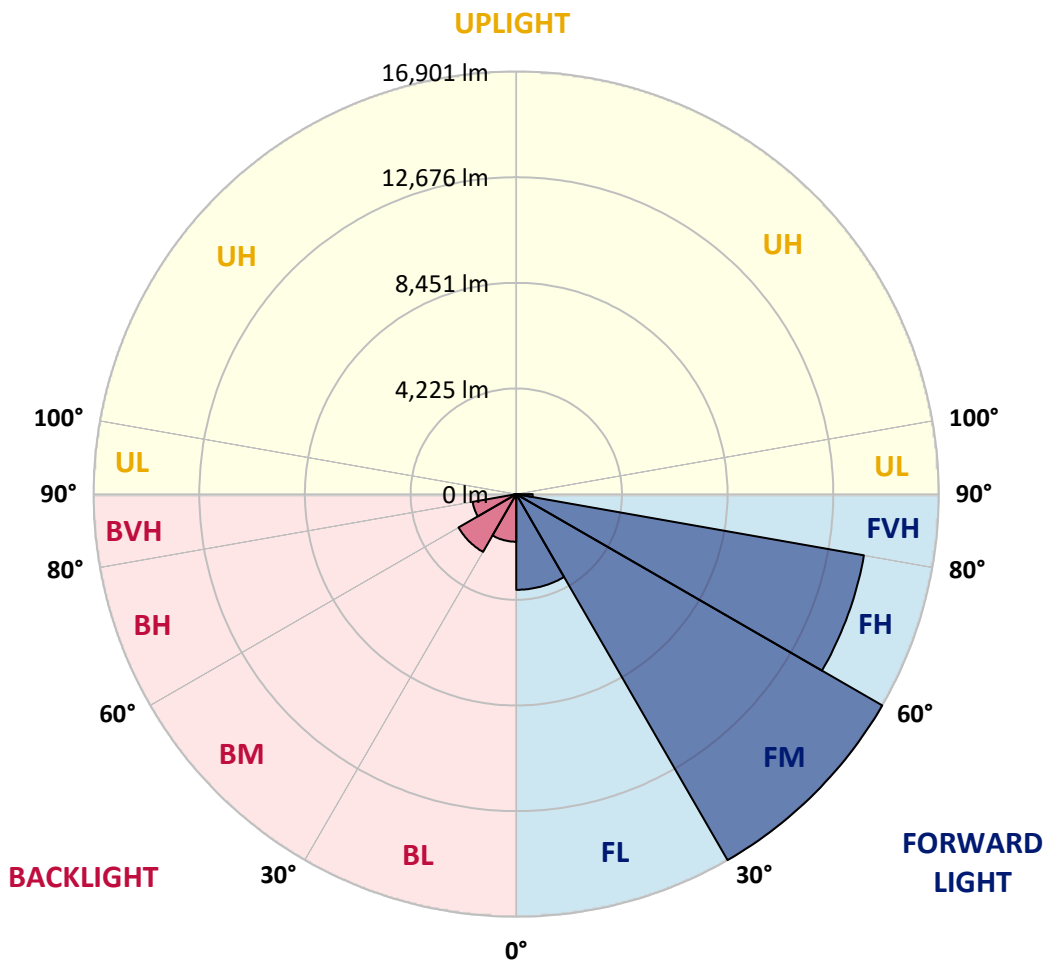
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3826.8	9.1			
FM (30°-60°)	16901.4	40.3			
FH (60°-80°)	14118.0	33.7			G5
FVH (80°-90°)	661.2	1.6			G4/750
BL (0°-30°)	1904.8	4.5	B3/2500		
BM (30°-60°)	2665.7	6.4	B3/5000		
BH (60°-80°)	1773.4	4.2	B3/2500		G3/2500
BVH (80°-90°)	87.9	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°	11532.7	11532.7	11532.7	11532.7	11532.7	11532.7	11532.7	11532.7	11532.7	11532.7	11532.7
2.5°	11844.1	11863.0	11863.0	11900.7	11773.3	11834.7	11825.2	11768.6	11787.5	11688.4	11589.3
5°	11509.1	11494.9	11570.4	11579.9	11679.0	11707.3	11730.9	11693.1	11702.6	11485.5	11391.1
7.5°	10650.3	10645.5	10773.0	10881.5	11089.1	11282.6	11410.0	11372.2	11424.1	11287.3	11065.5
10°	9631.0	9739.5	9871.7	9980.2	10362.4	10607.8	10938.1	10971.1	11169.3	11136.3	10735.2
12.5°	8866.6	8913.8	9012.9	9324.3	9673.5	10079.3	10551.2	10593.6	10787.1	10881.5	10532.3
15°	8239.0	8281.4	8408.8	8640.1	9031.7	9513.0	10112.3	10220.9	10607.8	10640.8	10268.0
17.5°	7781.3	7814.3	7899.2	8130.4	8451.3	9069.5	9635.7	9829.2	10338.8	10499.3	9994.4
20°	7601.9	7531.2	7578.3	7724.6	8045.5	8522.1	9253.5	9423.4	10074.6	10390.7	9734.8
22.5°	7521.7	7460.4	7488.7	7479.3	7734.1	8073.8	8843.0	9022.3	9824.5	10263.3	9503.6
25°	7583.1	7583.1	7554.8	7531.2	7559.5	7781.3	8399.4	8677.8	9489.4	10154.8	9267.7
27.5°	7913.4	7786.0	7800.1	7701.0	7672.7	7672.7	8201.2	8366.4	9380.9	10093.5	9074.2
30°	8125.7	8187.1	8191.8	8045.5	7899.2	7635.0	8017.2	8177.6	9291.3	10169.0	8960.9
32.5°	8668.4	8640.1	8559.8	8531.5	8314.5	8017.2	8106.8	8215.4	9239.4	10338.8	8994.0
35°	9211.0	9196.9	9201.6	9187.4	8960.9	8522.1	8347.5	8493.8	9333.7	10636.1	9107.2
37.5°	9772.6	9810.3	9970.8	9970.8	9730.1	9253.5	9022.3	8979.8	9678.2	11122.1	9376.2
40°	10334.1	10428.5	10631.4	10952.3	10612.5	10169.0	9796.2	9730.1	10093.5	11773.3	10022.7
42.5°	10872.0	11027.8	11428.9	11905.5	11792.2	11348.6	10853.2	10777.7	10947.5	12740.7	10924.0
45°	11561.0	11693.1	12325.4	13056.8	13212.6	12820.9	12240.5	12179.1	12169.7	14156.3	12165.0
47.5°	12608.6	12750.1	13382.4	14118.6	14599.9	14661.2	14010.0	13944.0	13717.5	16067.4	13981.7
50°	13920.4	14151.6	14684.8	15543.6	16242.0	16897.9	16713.9	16520.4	16076.9	18290.0	16284.5
52.5°	14878.3	15161.4	15883.4	16982.9	18214.5	19257.3	19917.9	19917.9	18898.7	20729.6	19054.4
55°	15133.1	15303.0	16213.7	17803.9	19913.2	22551.0	23933.6	23829.8	22258.4	23296.6	22277.3
57.5°	14118.6	14340.3	15444.5	17110.3	20805.1	25632.4	27921.0	27944.6	25929.6	26278.8	25457.8
60°	11325.0	11395.8	12698.2	14925.5	19946.2	28114.4	33366.4	33456.1	30105.8	28935.5	27076.3
62.5°	7828.4	8054.9	9036.4	10990.0	16525.1	27836.0	38618.4	39062.0	33451.4	30337.0	27331.1
65°	5152.9	5289.7	5813.5	7002.7	11504.4	24127.1	40251.1	41619.6	36008.9	30417.2	26264.7
67.5°	3737.3	3760.9	3916.6	4530.0	6913.0	17350.9	37462.3	39392.3	36966.8	29747.1	23763.7
70°	3020.0	3038.9	3095.5	3487.2	4464.0	10857.9	30554.0	33578.8	34093.1	26571.4	19139.3
72.5°	2453.8	2477.4	2548.1	2916.2	3680.6	6040.0	22343.4	26028.7	27732.2	19658.4	12721.8
75°	1930.0	1948.9	2118.7	2482.1	3458.9	4147.8	14821.7	18431.5	18662.7	11490.2	5955.1
77.5°	1321.3	1354.3	1561.9	2104.6	3256.0	3628.7	9239.4	11806.4	10593.6	4497.0	2047.9
80°	839.9	887.1	1009.8	1594.9	2878.4	3463.6	5747.5	7049.8	4638.6	1538.3	986.2
82.5°	495.5	542.7	665.3	1033.4	2260.3	3213.5	4048.7	4412.1	2175.4	788.0	594.6
85°	273.7	306.7	401.1	622.9	1326.0	2854.9	3241.8	3166.3	1245.8	420.0	372.8
87.5°	89.7	103.8	146.3	250.1	547.4	1344.8	1944.1	1826.2	646.5	193.5	146.3
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°	11532.7	11532.7	11532.7	11532.7	11532.7	11532.7	11532.7	11532.7	11532.7	11532.7	11532.7
2.5°	11523.2	11509.1	11296.7	11136.3	10862.6	10636.1	10546.5	10423.8	10419.0	10329.4	10305.8
5°	11244.8	11098.5	10773.0	10461.5	9975.5	9649.9	9352.6	9145.0	9060.0	8876.0	8833.5
7.5°	10886.2	10692.7	10192.5	9607.4	9036.4	8526.8	8064.4	7601.9	7342.4	7252.8	7153.7
10°	10513.4	10173.7	9432.8	8776.9	7979.4	7196.1	6469.4	5818.2	5464.3	5214.2	5105.7
12.5°	10216.1	9763.1	8819.4	7837.9	6785.6	5738.0	4893.4	4209.1	3808.0	3619.3	3534.4
15°	9881.1	9281.8	8149.3	6908.3	5596.5	4407.3	3581.5	3043.6	2883.2	2793.5	2779.4
17.5°	9527.2	8833.5	7422.6	5992.8	4435.6	3317.3	2784.1	2567.0	2496.2	2458.5	2439.6
20°	9196.9	8432.4	6677.1	4973.6	3473.0	2661.4	2411.3	2298.0	2293.3	2312.2	2307.5
22.5°	8729.7	7908.7	5940.9	4029.8	2774.6	2316.9	2156.5	2128.2	2156.5	2180.1	2189.5
25°	8465.5	7479.3	5119.9	3199.3	2293.3	2057.4	2005.5	1996.0	2038.5	2066.8	2062.1
27.5°	8191.8	7035.7	4355.4	2562.3	2010.2	1873.4	1863.9	1873.4	1915.8	1958.3	1953.6
30°	7979.4	6681.8	3638.2	2142.3	1793.1	1741.2	1731.8	1741.2	1764.8	1769.5	1769.5
32.5°	7804.8	6261.8	3029.5	1859.2	1661.0	1618.5	1628.0	1623.3	1628.0	1632.7	1637.4
35°	7701.0	6011.7	2529.3	1684.6	1552.5	1519.4	1514.7	1500.6	1505.3	1510.0	1505.3
37.5°	7922.8	5889.0	2132.9	1561.9	1477.0	1448.7	1439.2	1429.8	1415.6	1415.6	1415.6
40°	8257.8	5823.0	1892.2	1481.7	1420.3	1387.3	1359.0	1349.6	1349.6	1354.3	1359.0
42.5°	8923.2	5931.5	1727.1	1420.3	1349.6	1311.8	1283.5	1288.2	1302.4	1316.5	1307.1
45°	9885.8	6261.8	1651.6	1373.2	1307.1	1255.2	1236.3	1231.6	1245.8	1269.3	1288.2
47.5°	11145.7	6776.2	1623.3	1330.7	1278.8	1208.0	1184.4	1198.6	1217.4	1250.5	1236.3
50°	13207.8	7932.3	1646.9	1292.9	1236.3	1184.4	1156.1	1141.9	1156.1	1179.7	1189.1
52.5°	15902.3	10032.1	1736.5	1274.1	1208.0	1165.5	1118.3	1094.8	1108.9	1127.8	1127.8
55°	19125.2	12901.1	1986.6	1250.5	1160.8	1137.2	1085.3	1038.1	1047.6	1047.6	1042.8
57.5°	21965.9	15067.0	2283.9	1217.4	1132.5	1099.5	1033.4	976.8	967.3	972.1	976.8
60°	23239.9	15642.7	2425.4	1208.0	1132.5	1052.3	962.6	906.0	891.8	882.4	882.4
62.5°	23018.2	14647.1	2137.6	1165.5	1160.8	1014.5	896.6	835.2	816.3	797.5	802.2
65°	21678.0	13226.7	1684.6	1108.9	1165.5	990.9	830.5	769.2	736.1	712.5	707.8
67.5°	19229.0	11292.0	1335.4	1066.4	1118.3	948.5	773.9	703.1	674.8	651.2	641.8
70°	15043.4	8852.4	1160.8	1009.8	1005.1	844.7	707.8	646.5	604.0	575.7	575.7
72.5°	9753.7	5596.5	995.7	896.6	868.3	707.8	613.4	575.7	542.7	519.1	519.1
75°	4416.8	2600.0	802.2	750.3	707.8	566.3	519.1	500.2	471.9	448.3	448.3
77.5°	1585.5	1108.9	599.3	589.8	528.5	438.8	420.0	405.8	386.9	363.3	363.3
80°	887.1	703.1	448.3	429.4	368.1	325.6	302.0	302.0	292.6	278.4	273.7
82.5°	561.5	457.7	330.3	287.8	240.7	217.1	207.6	202.9	198.2	179.3	174.6
85°	353.9	311.4	217.1	169.9	141.6	108.5	103.8	99.1	89.7	80.2	80.2
87.5°	160.4	179.3	84.9	51.9	37.8	23.6	14.2	4.7	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)