

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: P480669

Luminaire Tested: **IFLD-S-SA6C-830-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480669
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-830-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

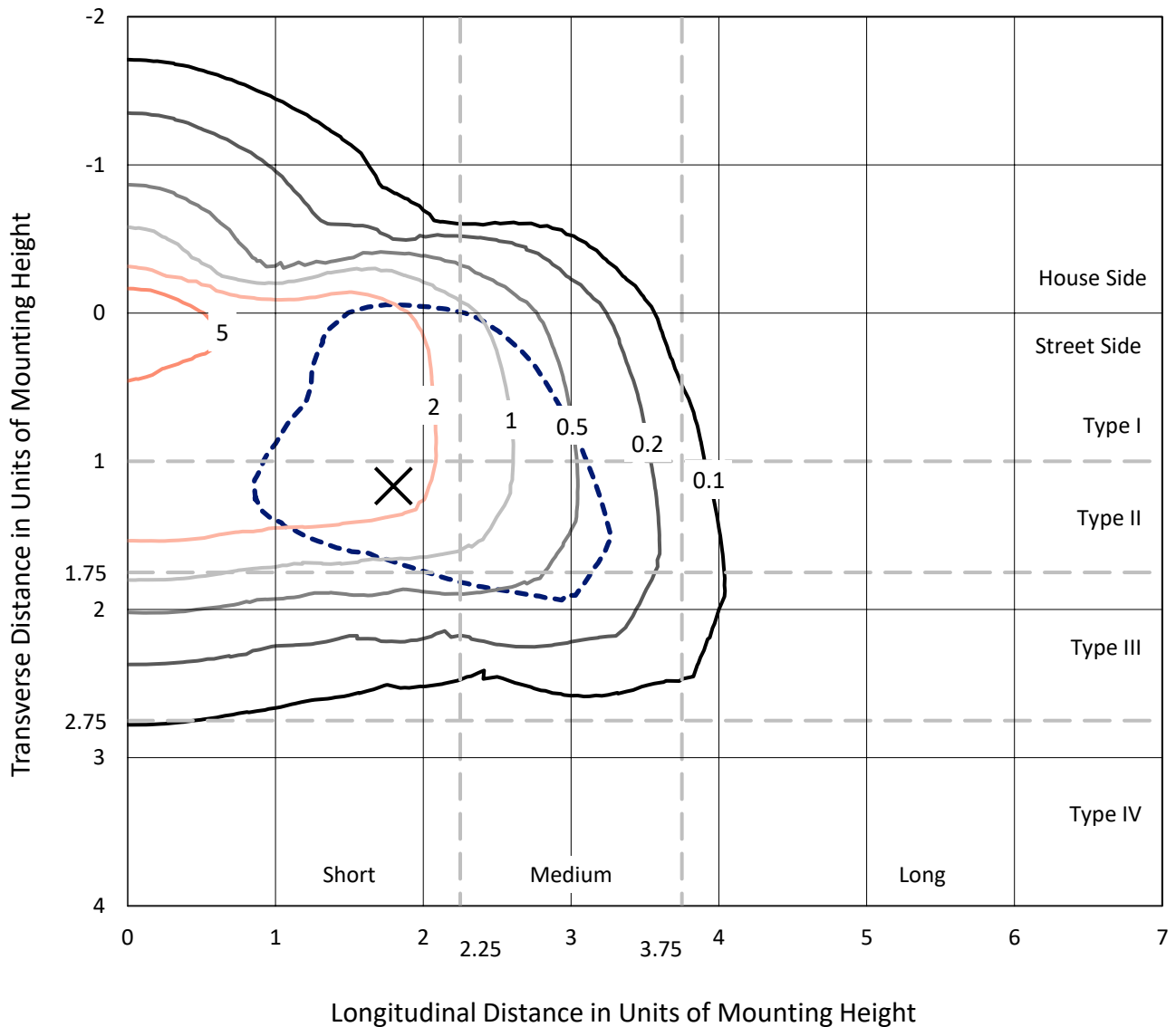
Lumens per Lamp: N/A
Luminaire Lumens: 32578.8 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 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

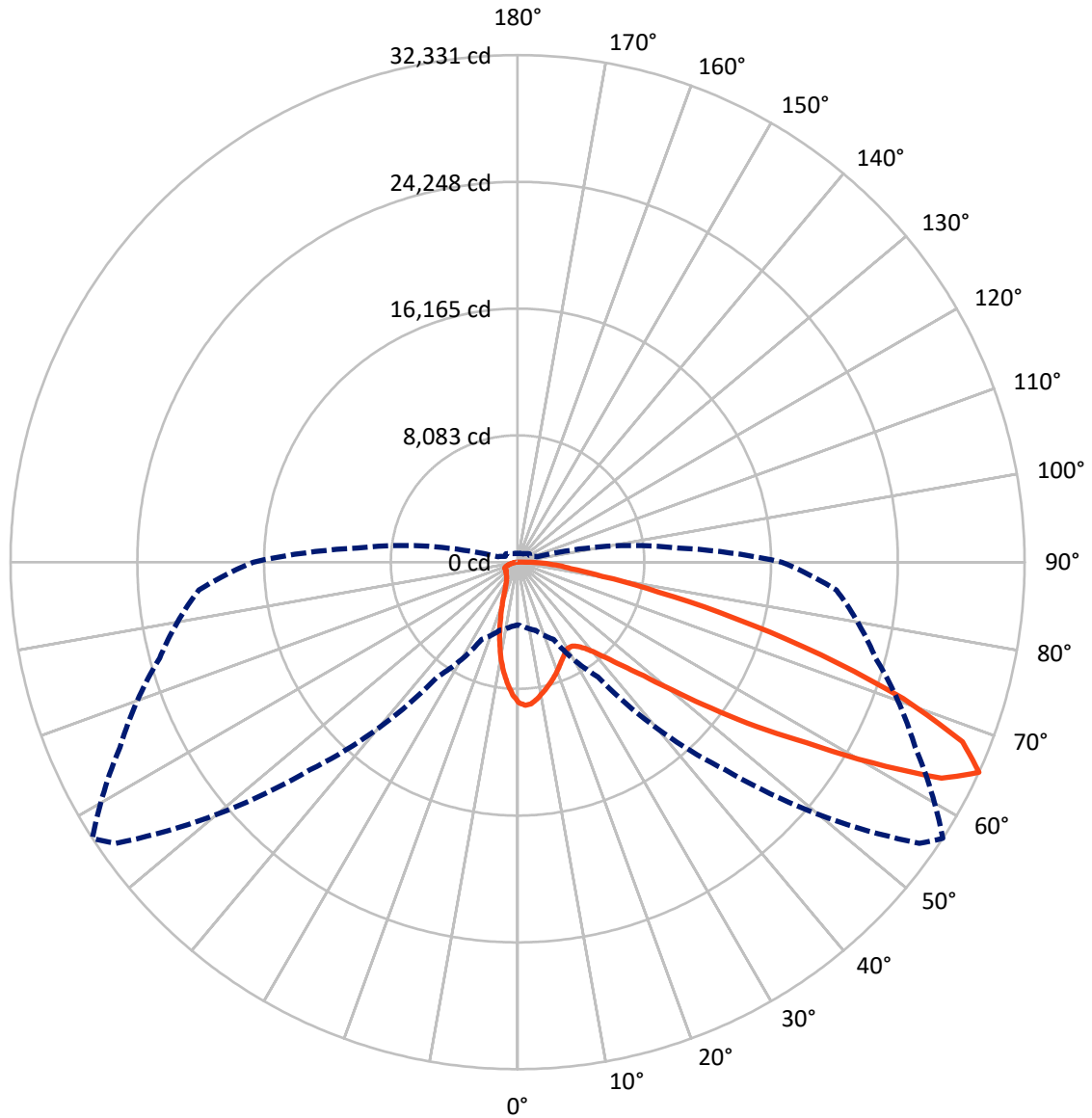
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10 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	4996.3	0.0	4996.3
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	27582.5	0.0	27582.5
	% Fixture	84.7	0.0	84.7
Total	Lumens	32578.8	0.0	32578.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	750.2	2.3
10°-20°	1614.6	5.0
20°-30°	2087.5	6.4
30°-40°	2809.1	8.6
40°-50°	4479.3	13.7
50°-60°	7911.5	24.3
60°-70°	8703.7	26.7
70°-80°	3640.9	11.2
80°-90°	581.9	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°	32578.8	100.0
0°-180°	32578.8	100.0



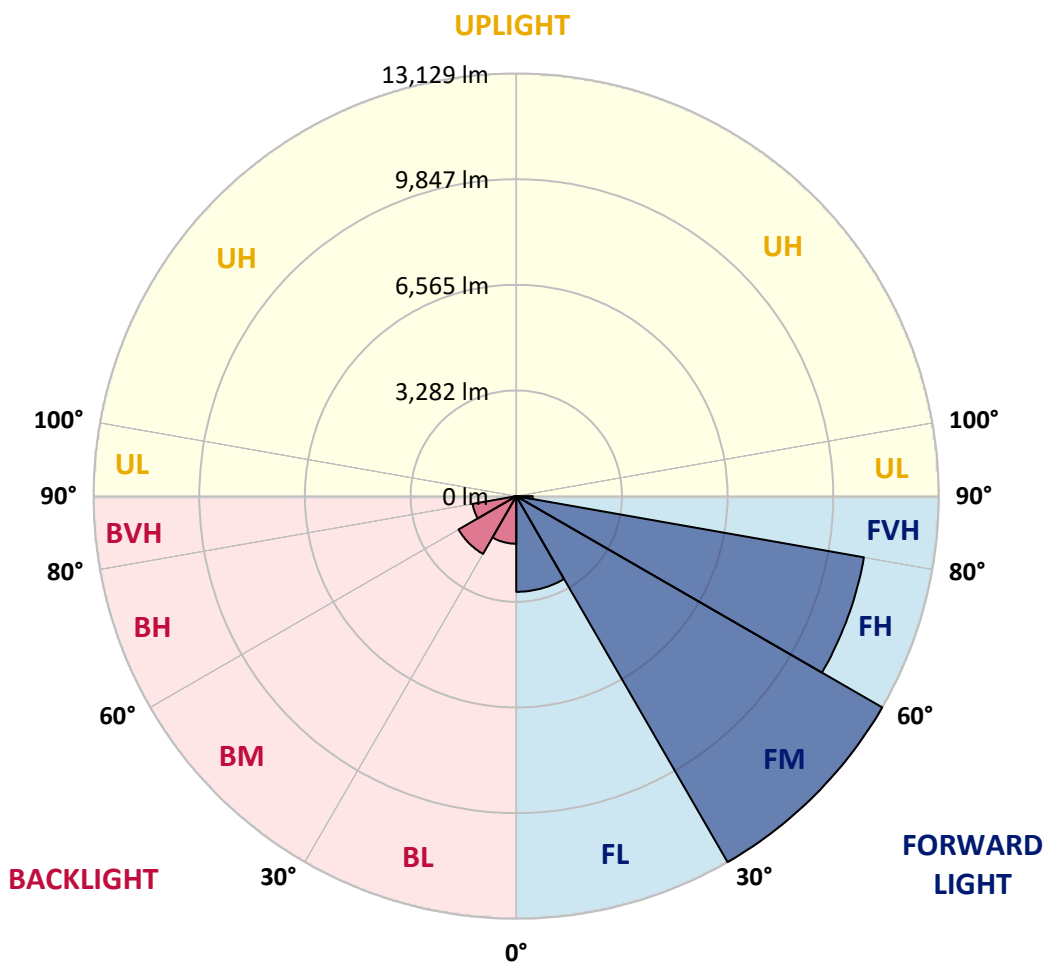
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2972.7	9.1			
FM (30°-60°)	13129.2	40.3			
FH (60°-80°)	10967.0	33.7			G4/12000
FVH (80°-90°)	513.6	1.6			G4/750
BL (0°-30°)	1479.7	4.5	B3/2500		
BM (30°-60°)	2070.7	6.4	B2/2500		
BH (60°-80°)	1377.6	4.2	B3/2500		G3/2500
BVH (80°-90°)	68.3	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°	8958.7	8958.7	8958.7	8958.7	8958.7	8958.7	8958.7	8958.7	8958.7	8958.7	8958.7
2.5°	9200.6	9215.3	9215.3	9244.6	9145.7	9193.3	9186.0	9142.0	9156.7	9079.7	9002.7
5°	8940.4	8929.4	8988.0	8995.4	9072.3	9094.3	9112.7	9083.3	9090.7	8922.1	8848.7
7.5°	8273.2	8269.6	8368.5	8452.9	8614.1	8764.4	8863.4	8834.1	8874.4	8768.1	8595.8
10°	7481.5	7565.8	7668.4	7752.7	8049.6	8240.3	8496.8	8522.5	8676.5	8650.8	8339.2
12.5°	6887.6	6924.3	7001.3	7243.2	7514.5	7829.7	8196.3	8229.3	8379.5	8452.9	8181.6
15°	6400.1	6433.1	6532.1	6711.7	7015.9	7389.8	7855.4	7939.7	8240.3	8265.9	7976.3
17.5°	6044.6	6070.2	6136.2	6315.8	6565.1	7045.3	7485.1	7635.4	8031.3	8155.9	7763.7
20°	5905.3	5850.3	5886.9	6000.6	6249.8	6620.1	7188.2	7320.2	7826.0	8071.6	7562.1
22.5°	5843.0	5795.3	5817.3	5810.0	6007.9	6271.8	6869.3	7008.6	7631.8	7972.7	7382.5
25°	5890.6	5890.6	5868.6	5850.3	5872.3	6044.6	6524.8	6741.0	7371.5	7888.4	7199.2
27.5°	6147.2	6048.2	6059.2	5982.2	5960.3	5960.3	6370.8	6499.1	7287.2	7840.7	7048.9
30°	6312.2	6359.8	6363.5	6249.8	6136.2	5930.9	6227.8	6352.5	7217.6	7899.4	6961.0
32.5°	6733.7	6711.7	6649.4	6627.4	6458.8	6227.8	6297.5	6381.8	7177.2	8031.3	6986.6
35°	7155.2	7144.2	7147.9	7136.9	6961.0	6620.1	6484.4	6598.1	7250.5	8262.2	7074.6
37.5°	7591.4	7620.8	7745.4	7745.4	7558.5	7188.2	7008.6	6975.6	7518.1	8639.8	7283.5
40°	8027.6	8101.0	8258.6	8507.8	8243.9	7899.4	7609.8	7558.5	7840.7	9145.7	7785.7
42.5°	8445.5	8566.5	8878.1	9248.3	9160.3	8815.8	8430.9	8372.2	8504.2	9897.1	8485.8
45°	8980.7	9083.3	9574.5	10142.7	10263.7	9959.4	9508.5	9460.9	9453.6	10996.8	9449.9
47.5°	9794.5	9904.4	10395.6	10967.5	11341.3	11389.0	10883.1	10831.8	10655.9	12481.3	10861.2
50°	10813.5	10993.1	11407.3	12074.5	12617.0	13126.5	12983.5	12833.2	12488.7	14207.8	12650.0
52.5°	11557.6	11777.6	12338.4	13192.5	14149.2	14959.3	15472.5	15472.5	14680.7	16102.9	14801.7
55°	11755.6	11887.5	12595.0	13830.3	15468.8	17517.9	18591.9	18511.2	17290.6	18097.0	17305.3
57.5°	10967.5	11139.7	11997.5	13291.4	16161.6	19911.5	21689.3	21707.6	20142.4	20413.7	19775.9
60°	8797.4	8852.4	9864.1	11594.3	15494.5	21839.6	25919.4	25989.1	23386.5	22477.4	21033.2
62.5°	6081.2	6257.2	7019.6	8537.2	12836.9	21623.3	29999.2	30343.8	25985.4	23566.1	21231.1
65°	4002.8	4109.1	4516.0	5439.7	8936.7	18742.2	31267.5	32330.5	27972.1	23628.4	20402.7
67.5°	2903.1	2921.5	3042.4	3519.0	5370.1	13478.4	29101.1	30600.4	28716.3	23107.9	18459.9
70°	2346.0	2360.6	2404.6	2708.9	3467.7	8434.5	23734.7	26084.4	26483.9	20641.0	14867.6
72.5°	1906.1	1924.4	1979.4	2265.3	2859.2	4692.0	17356.6	20219.4	21542.7	15270.9	9882.4
75°	1499.2	1513.9	1645.9	1928.1	2686.9	3222.1	11513.6	14317.8	14497.4	8925.7	4626.0
77.5°	1026.4	1052.0	1213.3	1634.9	2529.3	2818.8	7177.2	9171.3	8229.3	3493.3	1590.9
80°	652.5	689.1	784.4	1239.0	2236.0	2690.5	4464.7	5476.4	3603.3	1195.0	766.1
82.5°	384.9	421.5	516.8	802.8	1755.8	2496.3	3145.1	3427.3	1689.8	612.2	461.9
85°	212.6	238.3	311.6	483.9	1030.0	2217.7	2518.3	2459.6	967.7	326.2	289.6
87.5°	69.6	80.6	113.6	194.3	425.2	1044.7	1510.2	1418.6	502.2	150.3	113.6
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°	8958.7	8958.7	8958.7	8958.7	8958.7	8958.7	8958.7	8958.7	8958.7	8958.7	8958.7
2.5°	8951.4	8940.4	8775.4	8650.8	8438.2	8262.2	8192.6	8097.3	8093.6	8024.0	8005.7
5°	8735.1	8621.5	8368.5	8126.6	7749.1	7496.1	7265.2	7103.9	7037.9	6895.0	6862.0
7.5°	8456.5	8306.2	7917.7	7463.1	7019.6	6623.7	6264.5	5905.3	5703.7	5634.0	5557.0
10°	8166.9	7903.0	7327.5	6818.0	6198.5	5590.0	5025.5	4519.7	4244.8	4050.5	3966.2
12.5°	7936.0	7584.1	6851.0	6088.5	5271.1	4457.4	3801.2	3269.7	2958.1	2811.5	2745.5
15°	7675.8	7210.2	6330.5	5366.4	4347.4	3423.7	2782.2	2364.3	2239.7	2170.0	2159.0
17.5°	7400.8	6862.0	5766.0	4655.3	3445.7	2576.9	2162.7	1994.1	1939.1	1909.8	1895.1
20°	7144.2	6550.4	5186.8	3863.5	2697.9	2067.4	1873.1	1785.1	1781.5	1796.1	1792.5
22.5°	6781.3	6143.5	4615.0	3130.4	2155.4	1799.8	1675.2	1653.2	1675.2	1693.5	1700.8
25°	6576.1	5810.0	3977.2	2485.3	1781.5	1598.2	1557.9	1550.5	1583.5	1605.5	1601.9
27.5°	6363.5	5465.4	3383.3	1990.4	1561.5	1455.2	1447.9	1455.2	1488.2	1521.2	1517.6
30°	6198.5	5190.5	2826.2	1664.2	1392.9	1352.6	1345.3	1352.6	1370.9	1374.6	1374.6
32.5°	6062.9	4864.2	2353.3	1444.2	1290.3	1257.3	1264.6	1261.0	1264.6	1268.3	1272.0
35°	5982.2	4670.0	1964.8	1308.6	1206.0	1180.3	1176.7	1165.7	1169.3	1173.0	1169.3
37.5°	6154.5	4574.7	1656.8	1213.3	1147.3	1125.3	1118.0	1110.7	1099.7	1099.7	1099.7
40°	6414.8	4523.3	1469.9	1151.0	1103.3	1077.7	1055.7	1048.4	1048.4	1052.0	1055.7
42.5°	6931.6	4607.7	1341.6	1103.3	1048.4	1019.0	997.0	1000.7	1011.7	1022.7	1015.4
45°	7679.4	4864.2	1283.0	1066.7	1015.4	975.0	960.4	956.7	967.7	986.0	1000.7
47.5°	8658.1	5263.8	1261.0	1033.7	993.4	938.4	920.1	931.1	945.7	971.4	960.4
50°	10260.0	6161.9	1279.3	1004.4	960.4	920.1	898.1	887.1	898.1	916.4	923.7
52.5°	12353.0	7793.1	1348.9	989.7	938.4	905.4	868.7	850.4	861.4	876.1	876.1
55°	14856.6	10021.7	1543.2	971.4	901.7	883.4	843.1	806.4	813.8	813.8	810.1
57.5°	17063.3	11704.2	1774.1	945.7	879.7	854.1	802.8	758.8	751.4	755.1	758.8
60°	18053.0	12151.4	1884.1	938.4	879.7	817.4	747.8	703.8	692.8	685.5	685.5
62.5°	17880.8	11378.0	1660.5	905.4	901.7	788.1	696.5	648.8	634.1	619.5	623.2
65°	16839.7	10274.7	1308.6	861.4	905.4	769.8	645.1	597.5	571.8	553.5	549.8
67.5°	14937.3	8771.8	1037.4	828.4	868.7	736.8	601.2	546.2	524.2	505.9	498.5
70°	11685.9	6876.7	901.7	784.4	780.8	656.1	549.8	502.2	469.2	447.2	447.2
72.5°	7576.8	4347.4	773.4	696.5	674.5	549.8	476.5	447.2	421.5	403.2	403.2
75°	3431.0	2019.7	623.2	582.8	549.8	439.9	403.2	388.6	366.6	348.2	348.2
77.5°	1231.6	861.4	465.5	458.2	410.5	340.9	326.2	315.2	300.6	282.3	282.3
80°	689.1	546.2	348.2	333.6	285.9	252.9	234.6	234.6	227.3	216.3	212.6
82.5°	436.2	355.6	256.6	223.6	186.9	168.6	161.3	157.6	154.0	139.3	135.6
85°	274.9	241.9	168.6	132.0	110.0	84.3	80.6	77.0	69.6	62.3	62.3
87.5°	124.6	139.3	66.0	40.3	29.3	18.3	11.0	3.7	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)