

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: P480280

Luminaire Tested: **IFLD-S-SA6D-830-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480280
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-830-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

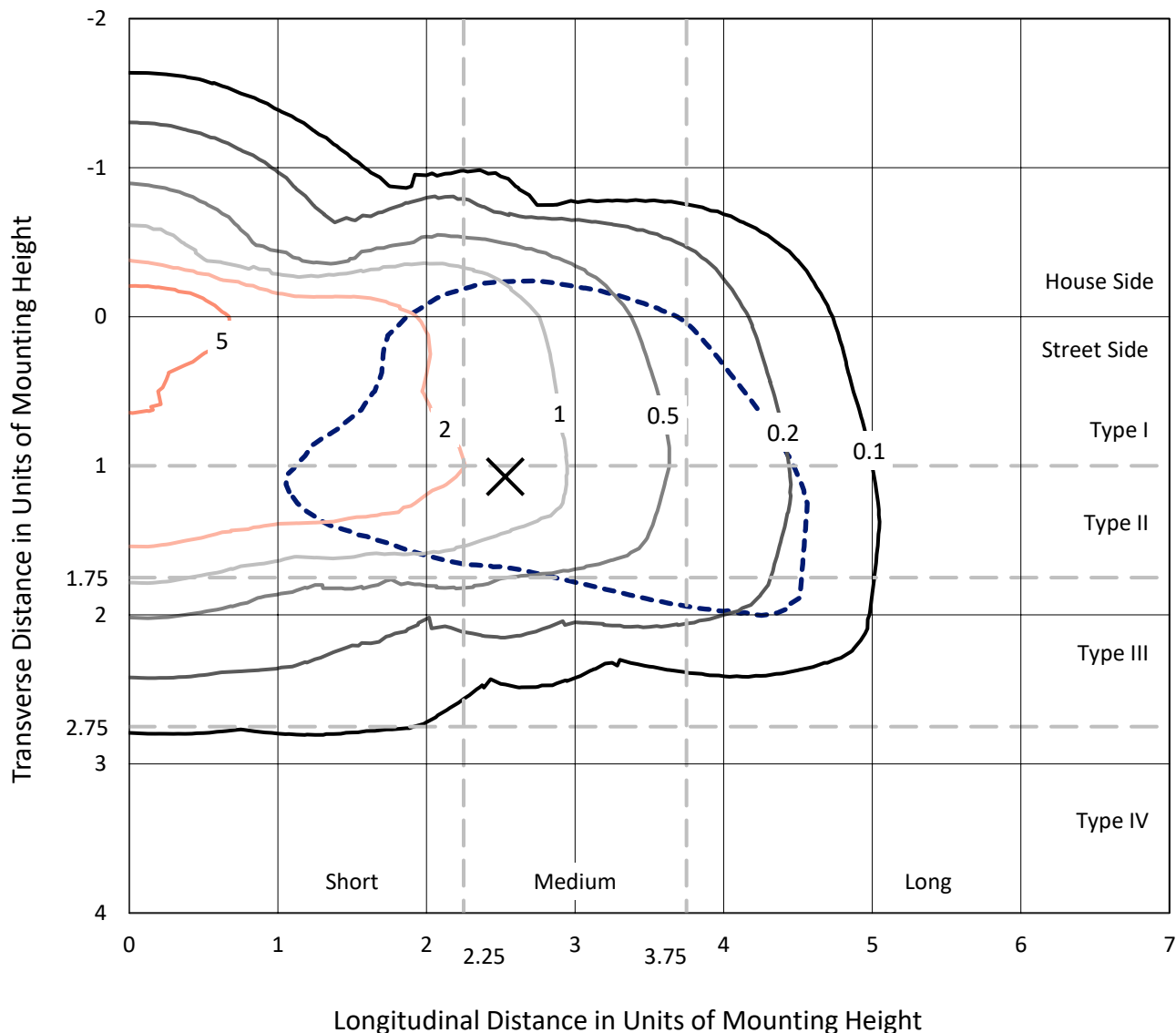
Lumens per Lamp: N/A
Luminaire Lumens: 36223.7 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 368.2
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

REPORT NUMBER: P480280
 CATALOG NUMBER: IFLD-S-SA6D-830-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

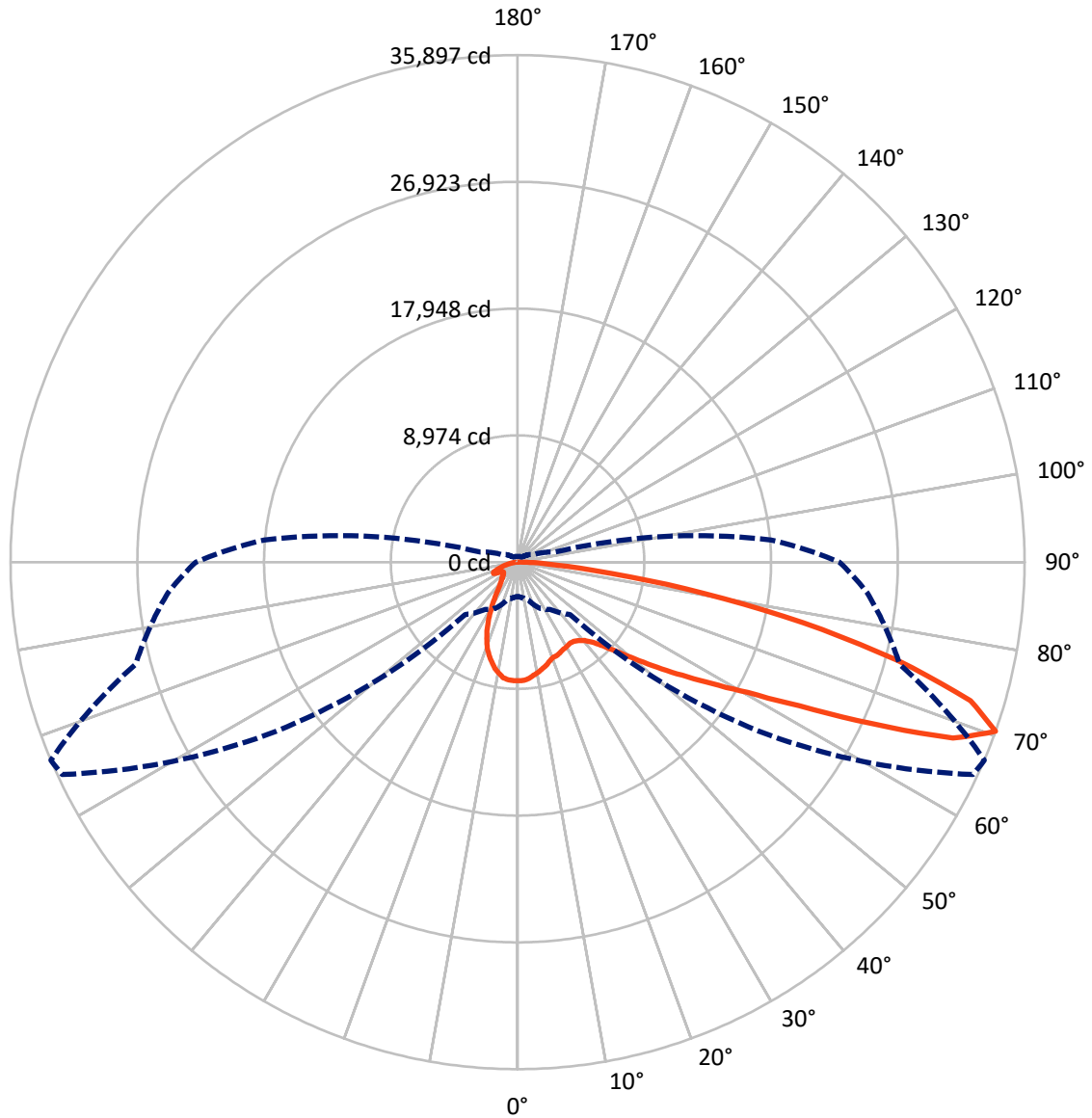
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.4 fc
 Type III - Medium - N/A

REPORT NUMBER: P480280
CATALOG NUMBER: IFLD-S-SA6D-830-U-SL2

Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7054.9	0.0	7054.9
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	29168.8	0.0	29168.8
	% Fixture	80.5	0.0	80.5
Total	Lumens	36223.7	0.0	36223.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	731.7	2.0
10°-20°	1752.3	4.8
20°-30°	2366.4	6.5
30°-40°	3166.4	8.7
40°-50°	4656.2	12.9
50°-60°	7257.8	20.0
60°-70°	8940.4	24.7
70°-80°	6317.2	17.4
80°-90°	1035.4	2.9
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°	36223.7	100.0
0°-180°	36223.7	100.0

Coefficient of Utilization

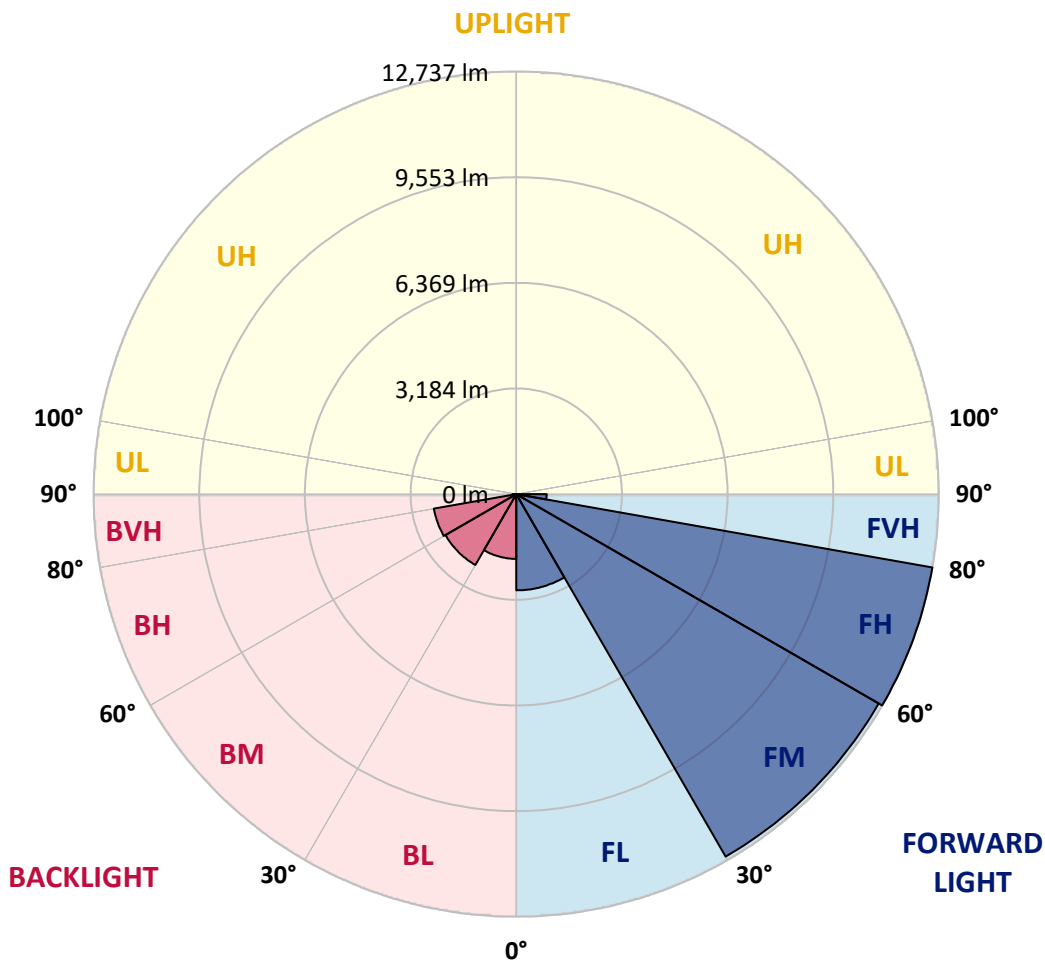


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2899.4	8.0			
FM (30°-60°)	12615.9	34.8			
FH (60°-80°)	12737.4	35.2			G5
FVH (80°-90°)	916.0	2.5			G5
BL (0°-30°)	1950.9	5.4	B3/2500		
BM (30°-60°)	2464.4	6.8	B2/2500		
BH (60°-80°)	2520.1	7.0	B4/5000		G4/5000
BVH (80°-90°)	119.4	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type III Medium





REPORT NUMBER: P480280

CATALOG NUMBER: IFLD-S-SA6D-830-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	8385.7	8385.7	8385.7	8385.7	8385.7	8385.7	8385.7	8385.7	8385.7	8385.7	8385.7
2.5°	7808.2	7896.4	7928.5	7976.6	8100.9	8193.2	8249.3	8313.5	8389.7	8453.8	8493.9
5°	7262.8	7310.9	7387.1	7439.2	7595.6	7844.3	8012.7	8285.4	8277.4	8377.6	8530.0
7.5°	6733.4	6781.5	6817.6	6921.9	7146.5	7371.0	7679.8	8121.0	8088.9	8321.5	8558.1
10°	6404.5	6368.5	6380.5	6556.9	6733.4	6986.1	7375.1	7824.2	7940.5	8301.5	8638.3
12.5°	6095.8	6055.6	6151.9	6264.2	6480.7	6709.3	7174.5	7579.6	7756.0	8229.3	8674.4
15°	5903.3	5875.2	5995.5	6043.6	6300.3	6573.0	6901.8	7395.1	7587.6	8141.0	8618.3
17.5°	5795.0	5819.0	5863.1	5967.4	6131.8	6364.4	6725.4	7270.8	7355.0	8032.8	8606.2
20°	5815.0	5843.1	5847.1	5891.2	6003.5	6184.0	6552.9	7138.4	7194.6	8012.7	8638.3
22.5°	5975.4	5935.3	5951.4	5923.3	5955.4	6095.8	6420.6	6962.0	7178.5	7844.3	8570.1
25°	6216.1	6159.9	6151.9	6055.6	5995.5	6035.6	6396.5	6917.9	7058.2	7792.1	8566.1
27.5°	6641.2	6556.9	6556.9	6412.6	6167.9	6103.8	6328.4	6845.7	6970.0	7744.0	8473.9
30°	7050.2	7050.2	7054.2	6849.7	6577.0	6260.2	6356.4	6817.6	6897.8	7599.6	8349.6
32.5°	7547.5	7535.5	7515.4	7415.2	6994.1	6520.8	6492.8	6781.5	6821.6	7551.5	8313.5
35°	8032.8	8000.7	8157.1	8068.8	7639.7	7030.2	6633.1	6797.6	6885.8	7479.3	8201.2
37.5°	8397.7	8417.8	8742.6	8798.7	8429.8	7607.7	7030.2	6958.0	7042.2	7583.6	8201.2
40°	8870.9	8951.1	9255.9	9444.4	9219.8	8369.6	7659.8	7226.7	7286.8	7816.2	8377.6
42.5°	9492.5	9560.7	9949.7	10194.3	10130.2	9340.1	8281.4	7788.1	7740.0	8205.2	8642.3
45°	10314.7	10326.7	10719.7	11056.6	11188.9	10354.8	9267.9	8498.0	8457.9	8874.9	9127.6
47.5°	11293.2	11281.1	11525.8	11886.7	12243.6	11565.9	10402.9	9576.7	9432.4	9833.4	9933.7
50°	12239.6	12187.5	12243.6	12704.8	13390.6	13081.8	11782.4	10896.2	10751.8	10972.4	11144.8
52.5°	12761.0	12825.1	12672.7	13282.3	14609.8	14874.4	13611.2	12472.2	12347.9	12456.2	12757.0
55°	12396.0	12528.4	12428.1	13005.6	15143.1	17060.1	15977.3	14296.9	14136.5	14096.4	14589.7
57.5°	10844.0	11084.6	11104.7	12019.1	14958.7	18752.5	19305.9	16450.5	16209.9	15800.8	16310.1
60°	8325.5	8566.1	8750.6	9833.4	13378.6	19763.1	23163.9	19514.4	18720.4	17661.6	17966.4
62.5°	5835.1	5999.5	6184.0	6849.7	10314.7	19169.5	26500.5	23829.6	22365.8	19622.7	20003.7
65°	4251.0	4379.3	4567.8	4960.8	6336.4	15861.0	28048.5	28954.8	27567.2	22117.1	22069.0
67.5°	3200.3	3280.5	3529.1	4158.7	4391.3	9797.3	26444.3	34368.8	33245.9	24888.3	23729.3
70°	2422.3	2490.4	2723.0	3585.3	4102.6	5253.6	20861.9	35575.9	35896.8	27996.3	24844.2
72.5°	1668.3	1744.5	2005.2	2987.7	3906.1	4166.8	13093.8	32319.5	33534.7	29275.6	23649.1
75°	1022.6	1074.8	1227.2	2265.9	3878.0	4074.5	7206.6	26484.4	27771.8	27049.9	20689.5
77.5°	721.9	717.9	745.9	1327.4	3360.7	4098.6	4443.5	19406.1	20657.4	19935.5	14040.3
80°	525.4	529.4	557.4	794.1	2281.9	4166.8	3501.0	12997.6	13370.5	10394.9	5538.3
82.5°	316.8	332.9	401.0	537.4	1371.5	3761.7	3236.4	7222.7	6757.5	3336.6	1523.9
85°	168.4	168.4	236.6	340.9	729.9	2807.3	3116.1	3436.9	2879.4	1034.7	565.5
87.5°	40.1	40.1	68.2	136.4	292.8	1343.5	2125.5	1367.5	1094.8	348.9	232.6
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°	8385.7	8385.7	8385.7	8385.7	8385.7	8385.7	8385.7	8385.7	8385.7	8385.7	8385.7
2.5°	8477.9	8429.8	8489.9	8369.6	8273.4	8277.4	8129.0	8121.0	8100.9	7996.7	8032.8
5°	8574.2	8534.1	8465.9	8333.5	8121.0	7908.4	7780.1	7615.7	7547.5	7511.4	7527.5
7.5°	8666.4	8594.2	8397.7	8213.2	7884.4	7483.3	7250.7	7030.2	6749.4	6717.4	6661.2
10°	8690.5	8538.1	8285.4	7892.4	7455.3	7010.1	6480.7	6071.7	5855.1	5686.7	5622.5
12.5°	8654.4	8590.2	8104.9	7599.6	6937.9	6240.1	5622.5	5045.0	4644.0	4435.5	4379.3
15°	8650.4	8538.1	7904.4	7154.5	6308.3	5397.9	4519.7	3825.9	3404.8	3232.4	3232.4
17.5°	8654.4	8385.7	7667.8	6705.3	5566.4	4335.2	3368.7	2799.2	2566.6	2542.6	2562.6
20°	8574.2	8273.4	7419.2	6176.0	4636.0	3256.4	2446.3	2213.7	2213.7	2245.8	2257.8
22.5°	8502.0	8104.9	7026.2	5522.3	3689.5	2358.1	1989.1	1921.0	1997.2	2053.3	2077.4
25°	8401.7	7964.6	6625.1	4844.5	2807.3	1900.9	1728.5	1744.5	1816.7	1917.0	1908.9
27.5°	8257.3	7719.9	6147.9	4058.5	2089.4	1640.2	1596.1	1604.1	1680.3	1724.5	1716.4
30°	8092.9	7471.3	5706.7	3276.5	1656.3	1503.9	1499.9	1519.9	1532.0	1556.0	1552.0
32.5°	7884.4	7142.5	5237.5	2546.6	1491.9	1427.7	1411.6	1399.6	1411.6	1407.6	1395.6
35°	7736.0	6966.0	4760.3	1941.0	1399.6	1359.5	1347.5	1327.4	1311.4	1287.3	1283.3
37.5°	7695.9	6789.5	4259.0	1584.1	1327.4	1307.4	1267.3	1231.2	1211.1	1199.1	1191.1
40°	7671.8	6673.2	3769.7	1391.6	1267.3	1247.2	1199.1	1151.0	1130.9	1118.9	1122.9
42.5°	7756.0	6609.1	3272.5	1295.3	1215.1	1179.0	1126.9	1070.8	1066.8	1058.7	1070.8
45°	8052.8	6689.3	2811.3	1227.2	1163.0	1102.8	1034.7	1006.6	1002.6	994.6	1002.6
47.5°	8726.5	6889.8	2418.2	1183.1	1106.9	1054.7	982.5	942.4	938.4	934.4	934.4
50°	9657.0	7507.4	2089.4	1130.9	1070.8	998.6	930.4	886.3	878.3	862.2	862.2
52.5°	11116.7	8546.1	1892.9	1102.8	1006.6	946.4	874.3	826.1	806.1	790.0	790.0
55°	12761.0	9833.4	1856.8	1054.7	938.4	882.3	818.1	770.0	749.9	729.9	721.9
57.5°	14633.8	11537.8	2113.5	1022.6	890.3	818.1	745.9	701.8	685.8	665.7	657.7
60°	16378.3	13238.2	2911.5	974.5	846.2	758.0	685.8	641.7	621.6	601.6	601.6
62.5°	18395.5	15343.6	4263.0	974.5	806.1	693.8	621.6	589.5	577.5	557.4	553.4
65°	20781.7	17521.3	5249.6	1034.7	794.1	637.6	561.5	529.4	517.3	505.3	501.3
67.5°	22598.4	18772.5	4515.7	1195.1	846.2	589.5	501.3	481.2	473.2	461.2	453.2
70°	22790.9	18010.5	2723.0	1291.3	898.3	541.4	449.2	429.1	429.1	417.1	409.1
72.5°	21062.4	15981.3	1832.7	1151.0	814.1	485.3	397.0	381.0	373.0	364.9	360.9
75°	17625.5	13555.0	1447.7	918.4	625.6	401.0	344.9	328.8	316.8	312.8	304.8
77.5°	11838.6	8810.8	1070.8	717.9	461.2	324.8	288.7	272.7	260.7	256.7	244.6
80°	4547.8	3356.7	689.8	521.3	324.8	256.7	228.6	212.5	204.5	192.5	184.5
82.5°	1339.5	1086.8	385.0	320.8	208.5	176.5	164.4	152.4	140.4	128.3	124.3
85°	553.4	497.3	236.6	168.4	128.3	104.3	96.2	84.2	72.2	64.2	56.1
87.5°	256.7	212.5	108.3	64.2	44.1	24.1	12.0	4.0	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)