

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: P478496

Luminaire Tested: **IFLD-L-SA7D-730-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478496
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-730-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

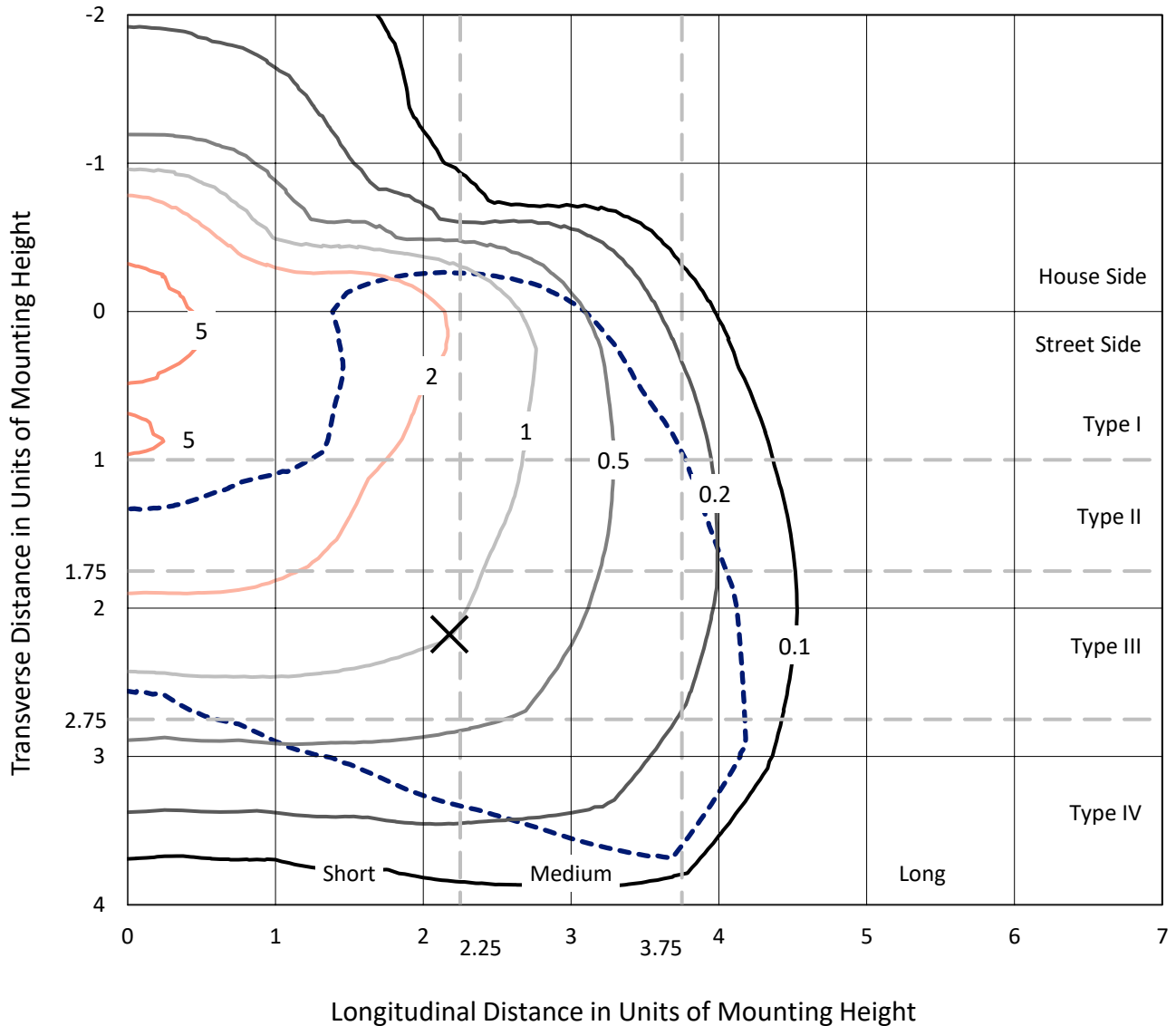
Lumens per Lamp: N/A
Luminaire Lumens: 44897 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 422.6
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

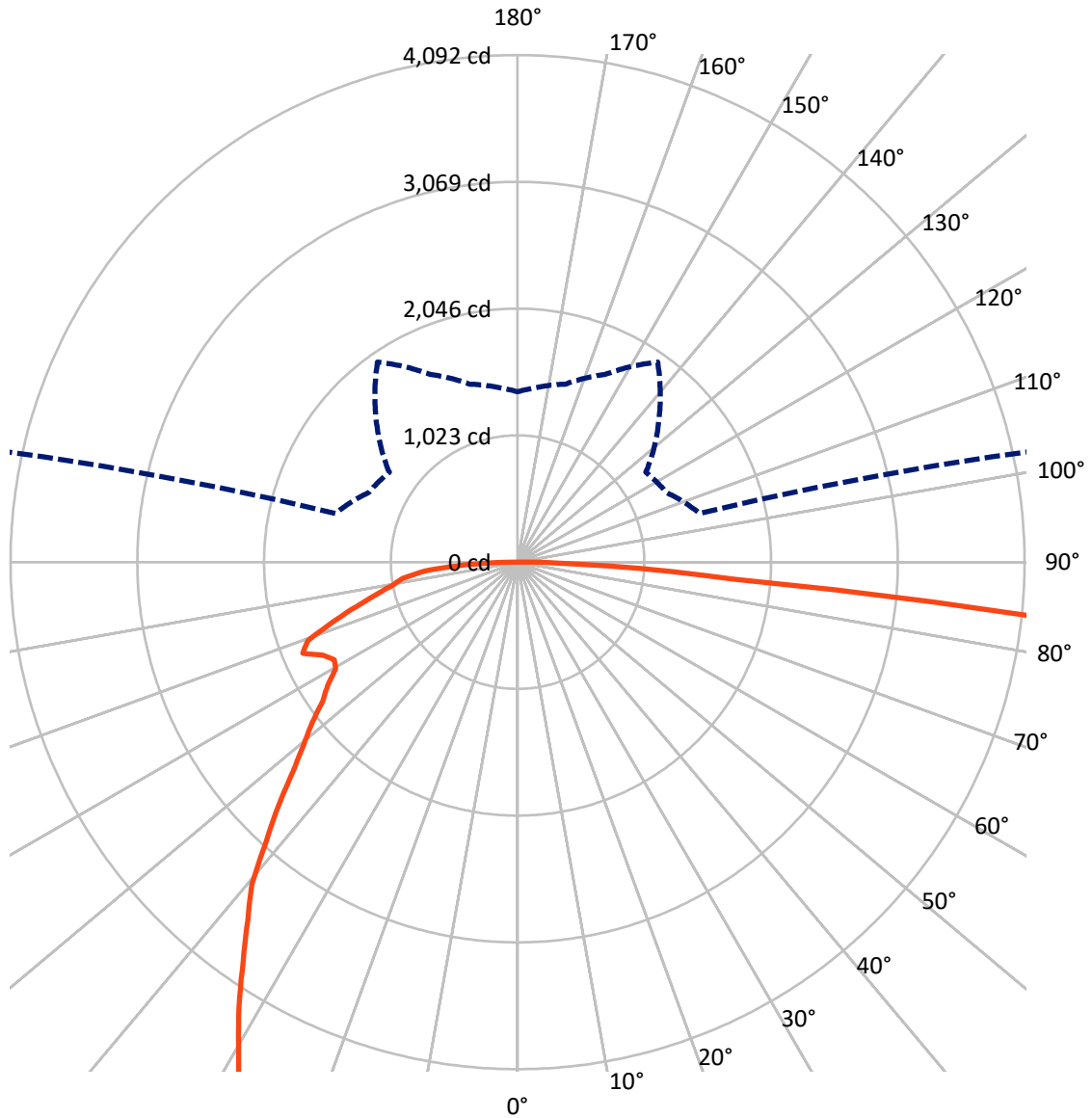
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9994.3	0.0	9994.3
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	34902.7	0.0	34902.7
	% Fixture	77.7	0.0	77.7
Total	Lumens	44897.0	0.0	44897.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	473.1	1.1
10°-20°	1574.1	3.5
20°-30°	2658.2	5.9
30°-40°	3678.5	8.2
40°-50°	5261.8	11.7
50°-60°	8486.7	18.9
60°-70°	12516.7	27.9
70°-80°	9089.3	20.2
80°-90°	1158.6	2.6
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°	44897.0	100.0
0°-180°	44897.0	100.0

Coefficient of Utilization



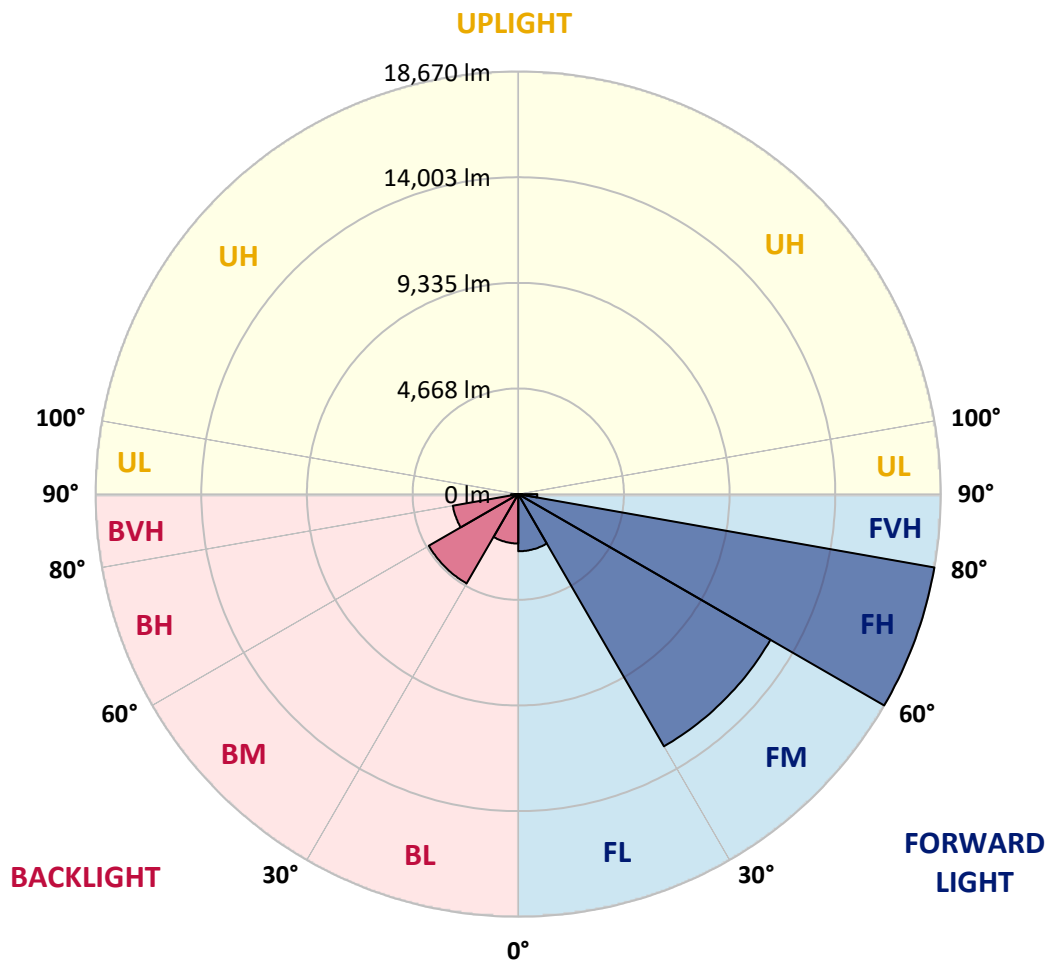
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2523.2	5.6			
FM (30°-60°)	12865.9	28.7			
FH (60°-80°)	18670.2	41.6			G5
FVH (80°-90°)	843.3	1.9			G5
BL (0°-30°)	2182.2	4.9	B3/2500		
BM (30°-60°)	4561.1	10.2	B3/5000		
BH (60°-80°)	2935.7	6.5	B4/5000		G4/5000
BVH (80°-90°)	315.3	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	4623.6	4623.6	4623.6	4623.6	4623.6	4623.6	4623.6	4623.6	4623.6	4623.6	4623.6
2.5°	4870.5	4899.5	4870.5	4865.7	4817.2	4783.4	4812.4	4768.8	4720.4	4701.0	4657.5
5°	5315.9	5320.8	5267.5	5272.3	5170.7	5064.2	5083.5	4952.8	4812.4	4759.1	4672.0
7.5°	5771.0	5717.7	5640.3	5616.1	5456.3	5340.1	5325.6	5209.4	4991.5	4870.5	4749.5
10°	6066.3	6085.7	5959.8	5853.3	5717.7	5577.3	5572.5	5354.6	5228.8	5049.6	4894.7
12.5°	6327.8	6332.6	6226.1	6056.7	5887.2	5712.9	5737.1	5640.3	5427.3	5257.8	5102.9
15°	6531.1	6502.1	6385.9	6230.9	6051.8	5916.2	5901.7	5819.4	5640.3	5499.9	5243.3
17.5°	6589.2	6574.7	6458.5	6293.9	6119.6	6017.9	6056.7	5921.1	5848.5	5722.6	5475.7
20°	6477.9	6444.0	6424.6	6240.6	6114.7	6105.1	6071.2	6100.2	5979.2	5863.0	5683.9
22.5°	6274.5	6260.0	6250.3	6105.1	6047.0	6090.5	6148.6	6192.2	6172.8	6061.5	5858.2
25°	6066.3	6134.1	6071.2	6003.4	6085.7	6197.1	6182.5	6322.9	6322.9	6289.0	6119.6
27.5°	6211.6	6168.0	6119.6	6085.7	6114.7	6289.0	6279.4	6448.8	6511.7	6448.8	6255.2
30°	6574.7	6531.1	6390.7	6240.6	6201.9	6390.7	6439.1	6589.2	6618.3	6463.3	6298.7
32.5°	7257.3	7233.1	7010.4	6569.8	6332.6	6439.1	6463.3	6632.8	6608.6	6511.7	6444.0
35°	8269.2	8186.9	7877.0	7131.5	6608.6	6502.1	6439.1	6574.7	6666.7	6618.3	6555.3
37.5°	9377.9	9285.9	8903.4	7959.3	7107.2	6671.5	6623.1	6734.5	6841.0	6816.8	6686.0
40°	10438.2	10438.2	10094.4	8995.4	7848.0	7083.0	7092.7	6966.8	7063.7	7020.1	7044.3
42.5°	11483.9	11445.2	11304.8	10210.6	8642.0	7770.5	7615.6	7300.9	7475.2	7460.7	7494.6
45°	12544.2	12515.1	12476.4	11343.5	9779.7	8700.1	8617.8	8051.3	8211.1	8143.3	8288.6
47.5°	13391.4	13425.3	13425.3	12607.1	10994.9	9939.5	9818.5	8922.8	9227.8	9261.7	9295.6
50°	14112.8	14127.3	14112.8	13812.6	12350.5	11358.0	11111.1	10200.9	10505.9	10772.2	11082.1
52.5°	15110.2	15129.5	15061.7	14945.5	14190.3	12849.2	12573.2	11561.4	12185.9	12466.7	13023.5
55°	16339.9	16194.6	16068.8	16155.9	15957.4	14490.5	14204.8	12965.4	13904.6	14277.4	15391.0
57.5°	16567.4	16693.3	17012.8	17705.2	17990.8	16088.1	15923.5	14689.0	15846.1	16170.4	18029.6
60°	17371.1	17162.9	17947.2	19448.1	19767.6	18170.0	18000.5	16577.1	17777.8	18116.7	20464.8
62.5°	17898.8	17889.1	19051.1	20832.7	21559.0	20329.2	19985.5	19031.7	19864.5	20193.7	23117.9
65°	17743.9	17884.3	19946.8	21646.1	23055.0	22783.9	22585.4	21142.6	22241.6	22212.6	24846.3
67.5°	16330.2	16727.2	19380.3	22231.9	25282.0	25775.9	25712.9	24110.4	24173.3	23558.5	25616.1
70°	14369.4	14233.9	16983.8	21621.9	26395.6	29324.6	29310.1	26318.1	25911.4	23853.8	23408.4
72°	11038.5	10888.4	13149.4	18567.0	25809.8	30743.2	31178.9	27848.0	25892.1	22628.9	19336.7
72.5°	10021.8	9891.1	12142.4	17477.6	25161.0	31111.1	30907.8	27906.1	25688.7	22052.8	18063.4
75°	4613.9	4463.8	6066.3	10699.6	19627.2	27567.2	28259.5	26114.8	22435.3	17555.1	10820.6
77.5°	1375.0	1331.4	1951.1	4318.6	11406.5	20309.9	20576.2	19704.7	15662.1	9615.1	4013.6
80°	764.9	769.8	1007.0	1617.0	5015.7	11740.5	12699.1	12171.4	7683.4	3176.0	1336.2
82.5°	426.0	450.3	629.4	958.6	2304.5	5388.5	5800.1	5591.9	2779.0	1491.2	731.1
85°	222.7	232.4	329.2	513.2	1307.2	1704.2	1752.6	1878.5	1442.8	1016.7	392.2
87.5°	87.1	87.1	121.0	213.0	484.1	527.7	474.5	576.1	827.9	658.4	193.7
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°	4623.6	4623.6	4623.6	4623.6	4623.6	4623.6	4623.6	4623.6	4623.6	4623.6	4623.6
2.5°	4696.2	4657.5	4652.6	4589.7	4609.1	4555.8	4560.6	4551.0	4555.8	4546.1	4521.9
5°	4672.0	4642.9	4560.6	4613.9	4565.5	4633.3	4686.5	4667.2	4681.7	4676.8	4681.7
7.5°	4705.9	4667.2	4657.5	4628.4	4672.0	4701.0	4744.6	4865.7	4856.0	4870.5	4899.5
10°	4807.6	4764.0	4734.9	4778.5	4754.3	4846.3	4894.7	4957.6	5069.0	5073.8	5015.7
12.5°	5006.1	4977.0	4918.9	4928.6	5010.9	5039.9	5069.0	5107.7	5180.3	5165.8	5219.1
15°	5233.6	5170.7	5136.8	5127.1	5146.5	5180.3	5175.5	5214.2	5253.0	5286.9	5272.3
17.5°	5398.2	5315.9	5325.6	5374.0	5369.2	5359.5	5296.5	5277.2	5296.5	5315.9	5306.2
20°	5567.7	5577.3	5504.7	5461.2	5441.8	5345.0	5296.5	5238.4	5180.3	5209.4	5253.0
22.5°	5780.7	5737.1	5630.6	5499.9	5403.1	5345.0	5194.9	5093.2	5093.2	5122.3	5107.7
25°	6022.8	5930.8	5746.8	5509.6	5388.5	5141.6	5035.1	5020.6	4981.8	5025.4	5044.8
27.5°	6211.6	6129.3	5877.5	5475.7	5141.6	4943.1	4880.2	4860.8	4923.8	4928.6	5006.1
30°	6289.0	6264.8	5896.9	5388.5	4889.9	4570.3	4531.6	4618.7	4686.5	4788.2	4793.0
32.5°	6390.7	6400.4	5925.9	5185.2	4560.6	4241.1	4183.0	4289.5	4483.2	4565.5	4628.4
35°	6560.2	6608.6	5901.7	4933.4	4212.1	3907.0	3897.4	3926.4	4115.2	4260.5	4342.8
37.5°	6855.5	6845.8	5896.9	4633.3	3936.1	3616.6	3539.1	3548.8	3674.7	3795.7	3781.2
40°	7252.5	7213.8	5882.4	4241.1	3577.8	3369.6	3238.9	3190.5	3180.8	3146.9	3156.6
42.5°	7794.7	7717.3	5877.5	3844.1	3253.5	3030.7	2938.8	2812.9	2720.9	2546.6	2556.3
45°	8550.0	8414.4	5751.6	3471.3	2933.9	2749.9	2609.5	2517.6	2319.1	2101.2	2101.2
47.5°	9716.8	9276.2	5756.5	3059.8	2624.1	2474.0	2377.2	2217.4	2004.4	1830.1	1810.7
50°	11435.5	10428.5	5591.9	2735.4	2372.3	2270.6	2169.0	1985.0	1781.7	1660.6	1675.1
52.5°	13652.9	12147.2	5587.0	2444.9	2173.8	2101.2	1989.8	1825.2	1675.1	1597.7	1568.6
55°	16296.3	14422.7	5761.3	2207.7	1970.5	1931.7	1883.3	1747.8	1602.5	1534.7	1529.9
57.5°	19002.7	16644.9	6042.1	2038.2	1796.2	1825.2	1791.3	1684.8	1568.6	1491.2	1481.5
60°	21408.9	18407.2	5475.7	1834.9	1641.3	1704.2	1752.6	1660.6	1597.7	1592.8	1558.9
62.5°	23224.4	19162.4	4163.6	1680.0	1558.9	1675.1	1805.9	1864.0	1834.9	1873.6	1878.5
65°	23887.7	18707.4	2866.1	1597.7	1496.0	1742.9	2033.4	2014.0	1844.6	1772.0	1810.7
67.5°	22958.1	16862.8	2125.4	1500.8	1452.4	1883.3	2164.1	1922.1	1665.5	1655.8	1626.7
70°	19743.4	14292.0	1733.2	1399.2	1379.8	1805.9	2106.0	1781.7	1568.6	1505.7	1476.6
72°	15729.9	11130.5	1520.2	1326.6	1263.6	1612.2	1970.5	1670.3	1486.3	1408.9	1375.0
72.5°	14359.7	10317.1	1491.2	1292.7	1239.4	1568.6	1902.7	1636.4	1467.0	1399.2	1345.9
75°	7877.0	5282.0	1312.0	1186.2	1045.8	1355.6	1762.3	1534.7	1384.7	1287.8	1278.1
77.5°	2929.1	2047.9	1132.9	1050.6	905.4	1171.6	1602.5	1457.3	1258.8	1137.7	1113.5
80°	1123.2	1079.6	924.7	886.0	760.1	1026.4	1476.6	1307.2	1070.0	948.9	910.2
82.5°	682.6	629.4	702.0	692.3	581.0	934.4	1389.5	1224.9	948.9	769.8	745.6
85°	372.8	372.8	489.0	469.6	406.7	745.6	1050.6	813.4	600.3	493.8	503.5
87.5°	164.6	193.7	261.4	246.9	222.7	421.2	513.2	430.9	300.2	203.3	217.9
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)