

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: P481265

Luminaire Tested: **IFLD-L-SA7D-735-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481265
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-735-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

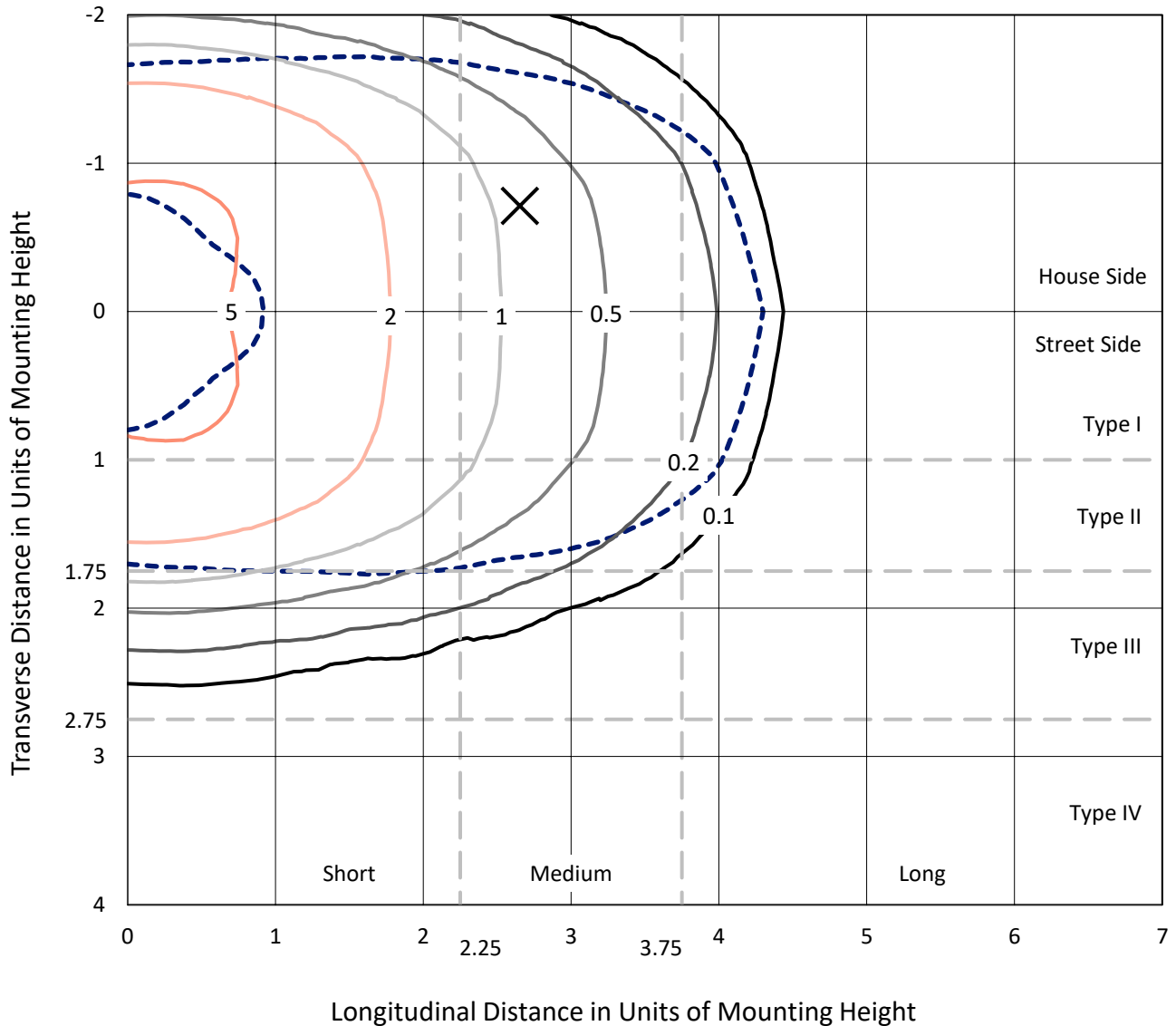
Lumens per Lamp: N/A
Luminaire Lumens: 49555.4 lumens
Efficiency: N/A
Efficacy: 117.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

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

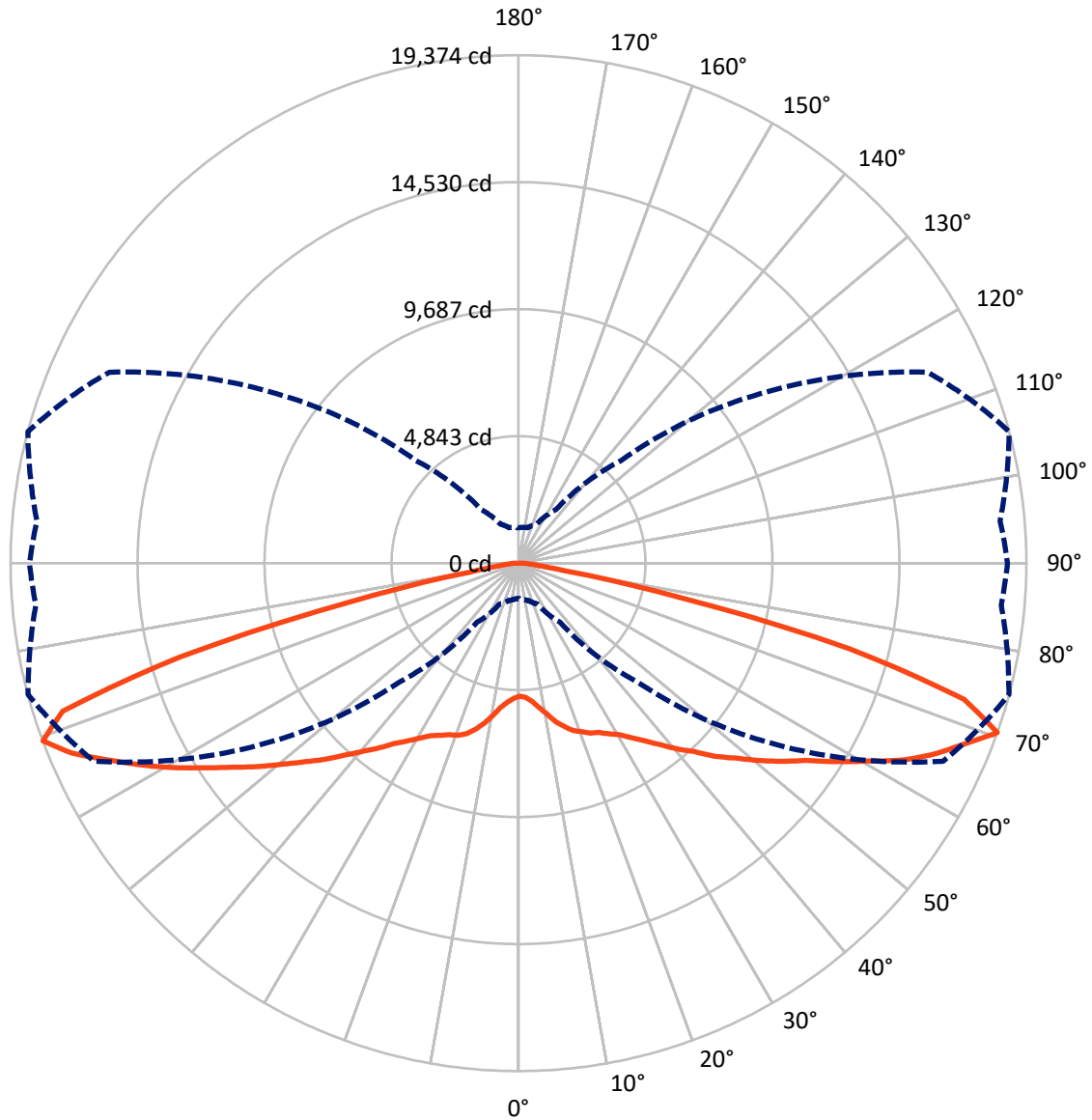
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	24601.4	0.0	24601.4
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	24954.0	0.0	24954.0
	% Fixture	50.4	0.0	50.4
Total	Lumens	49555.4	0.0	49555.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	505.1	1.0
10°-20°	1719.7	3.5
20°-30°	3330.0	6.7
30°-40°	5632.4	11.4
40°-50°	8985.4	18.1
50°-60°	12299.0	24.8
60°-70°	11592.7	23.4
70°-80°	5106.9	10.3
80°-90°	384.2	0.8
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°	49555.4	100.0
0°-180°	49555.4	100.0

Coefficient of Utilization

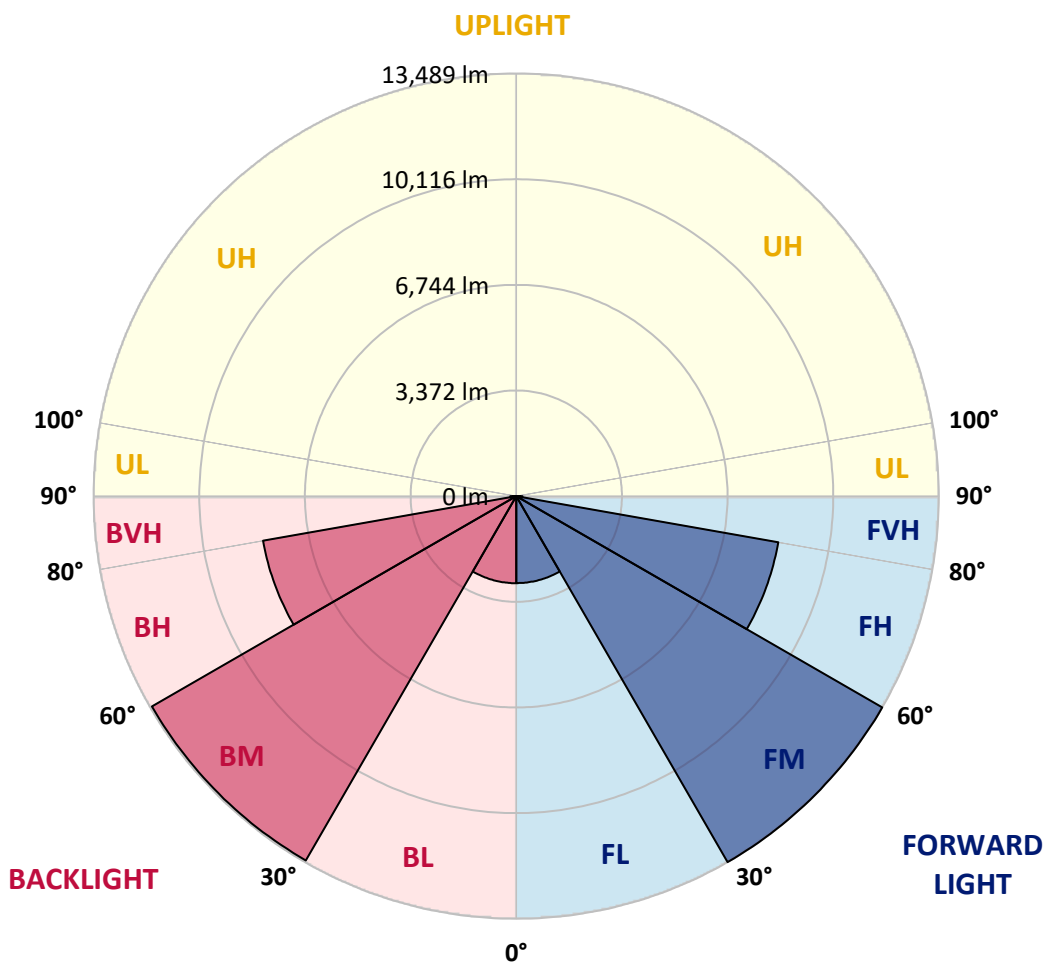


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2775.9	5.6			
FM (30°-60°)	13488.6	27.2			
FH (60°-80°)	8493.3	17.1			G4/12000
FVH (80°-90°)	196.3	0.4			G2/225
BL (0°-30°)	2778.9	5.6	B4/5000		
BM (30°-60°)	13428.3	27.1	B5		
BH (60°-80°)	8206.3	16.6	B5		G5
BVH (80°-90°)	188.0	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5074.4	5074.4	5074.4	5074.4	5074.4	5074.4	5074.4	5074.4	5074.4	5074.4	5074.4
2.5°	5042.4	5042.4	5037.0	5063.7	5090.5	5101.1	5122.5	5127.8	5159.9	5133.2	5186.6
5°	5026.4	5021.0	5063.7	5127.8	5127.8	5197.3	5240.0	5298.8	5314.8	5346.8	5357.5
7.5°	5138.5	5127.8	5106.5	5175.9	5234.7	5341.5	5400.3	5501.7	5539.1	5581.9	5629.9
10°	5208.0	5208.0	5186.6	5309.5	5362.9	5507.1	5635.3	5736.8	5881.0	5929.1	5934.4
12.5°	5218.6	5234.7	5298.8	5459.0	5608.6	5795.5	5891.7	6084.0	6228.2	6319.0	6351.0
15°	5378.9	5346.8	5416.3	5635.3	5854.3	6019.9	6190.8	6329.7	6538.0	6655.5	6730.3
17.5°	5523.1	5491.1	5619.3	5881.0	6105.3	6361.7	6511.3	6660.9	6810.4	6917.2	6922.6
20°	5752.8	5779.5	5891.7	6174.8	6468.6	6692.9	6863.8	6890.5	6965.3	7120.2	7093.5
22.5°	6035.9	6014.5	6249.6	6559.4	6879.9	7066.8	7163.0	7093.5	7056.1	7221.7	7259.1
25°	6319.0	6383.1	6596.8	6885.2	7269.8	7520.8	7547.5	7355.2	7216.4	7275.1	7259.1
27.5°	6751.7	6762.3	6986.7	7328.5	7718.5	7937.5	7921.4	7649.0	7382.0	7387.3	7398.0
30°	7307.2	7253.8	7499.5	7809.3	8193.9	8391.5	8418.2	8028.3	7670.4	7563.6	7590.3
32.5°	7841.3	7905.4	8119.1	8471.6	8754.7	8866.9	8808.1	8460.9	7996.2	7852.0	7868.0
35°	8525.0	8514.4	8808.1	9107.3	9320.9	9342.3	9294.2	8786.8	8348.8	8161.8	8087.0
37.5°	9256.8	9353.0	9545.3	9791.0	10015.3	10026.0	9764.3	9358.3	8818.8	8509.0	8599.8
40°	10074.1	10180.9	10319.8	10677.7	10843.3	10672.3	10405.2	9855.1	9294.2	9021.8	9064.5
42.5°	10795.2	10843.3	11126.4	11548.3	11628.5	11553.7	11158.4	10490.7	9839.0	9539.9	9561.3
45°	11457.5	11521.6	11890.2	12269.4	12456.4	12328.2	11868.8	11233.2	10474.7	10218.3	10116.8
47.5°	12066.5	12194.7	12552.5	12942.5	13230.9	13241.6	12675.4	11906.2	11105.0	10768.5	10763.1
50°	12477.8	12664.7	13017.2	13460.6	13882.6	14048.2	13482.0	12654.0	11794.0	11436.2	11398.8
52.5°	12702.1	12894.4	13246.9	13936.0	14406.0	14662.4	14395.4	13353.8	12600.6	12226.7	12167.9
55°	12429.7	12557.9	13134.8	14101.6	14828.0	15250.0	15073.7	14320.6	13401.8	13097.4	13150.8
57.5°	11270.6	11537.6	12248.1	13455.2	14817.3	15853.6	15837.6	15234.0	14325.9	14037.5	14048.2
60°	9278.2	9502.5	10378.5	12066.5	14219.1	16099.3	16665.5	16120.7	15362.2	15025.6	15015.0
62.5°	6548.7	6831.8	7846.7	9689.5	12456.4	15757.4	17616.3	17237.0	16377.0	16131.3	16222.1
65°	3664.3	3835.2	4775.3	6441.9	9491.9	13877.2	17787.2	18396.1	17408.0	17034.1	17050.1
67.5°	1960.3	2024.4	2462.4	3381.2	5806.2	10699.0	16061.9	19063.8	18524.3	17878.0	17776.5
70°	1346.1	1367.4	1479.6	1730.6	2745.5	6399.1	12114.5	17872.7	19362.9	18481.6	18652.5
72.5°	1137.7	1127.1	1153.8	1180.5	1436.9	2863.0	7109.5	13754.4	18278.6	17947.4	17883.4
75°	988.2	982.8	993.5	966.8	998.9	1260.6	3146.1	8573.1	13380.5	14934.8	15175.2
77.5°	817.2	822.6	827.9	801.2	790.5	833.3	1265.9	3765.8	6586.1	7269.8	7841.3
80°	619.6	630.3	673.0	646.3	603.6	608.9	747.8	1260.6	1890.9	1714.6	1768.0
82.5°	422.0	427.3	518.1	486.1	454.0	411.3	480.7	651.7	737.1	560.9	491.4
85°	299.1	293.8	336.5	309.8	288.4	208.3	288.4	368.6	443.3	277.8	251.1
87.5°	69.4	69.4	138.9	112.2	106.8	85.5	112.2	144.2	192.3	122.9	112.2
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5074.4	5074.4	5074.4	5074.4	5074.4	5074.4	5074.4	5074.4	5074.4	5074.4
2.5°	5170.6	5122.5	5122.5	5111.8	5069.1	5058.4	5021.0	5031.7	5005.0	4978.3
5°	5352.2	5288.1	5288.1	5197.3	5111.8	5101.1	5058.4	5058.4	5015.7	5026.4
7.5°	5603.2	5544.5	5448.3	5368.2	5250.7	5202.6	5122.5	5111.8	5101.1	5079.8
10°	5902.4	5827.6	5731.4	5565.8	5469.7	5378.9	5298.8	5186.6	5159.9	5165.2
12.5°	6308.3	6190.8	5982.5	5838.3	5715.4	5597.9	5480.4	5314.8	5277.4	5293.4
15°	6596.8	6447.2	6238.9	6185.5	6019.9	5875.7	5683.4	5496.4	5432.3	5416.3
17.5°	6831.8	6708.9	6586.1	6506.0	6372.4	6196.1	5929.1	5715.4	5571.2	5555.2
20°	7024.1	6863.8	6837.1	6885.2	6719.6	6602.1	6276.3	6014.5	5822.2	5742.1
22.5°	7141.6	7040.1	7114.9	7157.6	7146.9	6949.3	6612.8	6308.3	6067.9	5993.2
25°	7269.8	7152.3	7419.3	7563.6	7601.0	7275.1	7013.4	6612.8	6377.8	6329.7
27.5°	7333.9	7376.6	7686.4	7990.9	7964.2	7713.1	7360.6	7002.7	6815.8	6730.3
30°	7520.8	7590.3	8060.3	8402.2	8407.5	8161.8	7894.7	7488.8	7280.5	7243.1
32.5°	7857.4	7942.8	8444.9	8808.1	8872.2	8685.3	8418.2	8167.2	7953.5	7868.0
35°	8113.7	8332.7	8898.9	9230.1	9401.0	9288.9	9139.3	8877.6	8653.2	8578.5
37.5°	8482.3	8786.8	9331.6	9780.3	9972.6	9961.9	9849.7	9566.6	9379.7	9315.6
40°	9011.1	9315.6	9812.3	10405.2	10763.1	10747.1	10683.0	10464.0	10186.2	10154.2
42.5°	9572.0	9823.0	10469.3	11147.7	11660.5	11607.1	11436.2	11179.8	10987.5	10944.7
45°	10116.8	10506.7	11105.0	11975.6	12360.2	12493.8	12290.8	11852.8	11633.8	11607.1
47.5°	10800.5	11110.3	11858.1	12638.0	13209.5	13230.9	12883.7	12477.8	12077.1	12162.6
50°	11409.5	11820.7	12579.2	13433.9	14117.6	13871.9	13428.5	12921.1	12632.7	12520.5
52.5°	12061.1	12563.2	13444.6	14315.2	14694.5	14448.8	13727.7	13161.5	12723.5	12675.4
55°	13011.9	13273.6	14427.4	15095.1	15217.9	14699.8	13636.9	12835.6	12269.4	12130.6
57.5°	13978.7	14283.2	15292.7	15869.6	15741.4	14560.9	13049.3	11810.1	11067.6	10870.0
60°	14956.2	15330.1	16179.4	16708.2	16045.9	13604.8	11388.1	9791.0	8925.7	8749.4
62.5°	16045.9	16532.0	17290.4	17477.4	15143.2	11713.9	9037.8	7066.8	6190.8	5897.0
65°	17012.7	17509.4	18444.2	17317.2	13225.6	8738.7	5843.6	4038.2	3391.9	3156.8
67.5°	17808.6	18369.4	18828.8	15324.8	9684.1	5117.2	3044.7	2125.9	1885.6	1800.1
70°	18438.9	19373.6	17226.3	11265.2	5533.8	2494.5	1645.2	1399.5	1367.4	1346.1
72.5°	17888.7	17765.8	12862.3	6500.6	2425.0	1372.8	1191.2	1153.8	1148.4	1153.8
75°	14630.4	13049.3	7691.8	2825.7	1217.9	993.5	988.2	972.2	998.9	998.9
77.5°	7098.9	6206.8	3215.6	1212.5	801.2	779.9	806.6	806.6	806.6	806.6
80°	1645.2	1821.5	1148.4	737.1	582.2	582.2	641.0	646.3	619.6	608.9
82.5°	560.9	747.8	630.3	464.7	384.6	432.7	486.1	496.8	411.3	416.6
85°	277.8	438.0	341.9	267.1	197.6	267.1	315.1	331.2	283.1	272.4
87.5°	128.2	192.3	128.2	90.8	69.4	96.1	90.8	74.8	42.7	42.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)