

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: P476905

Luminaire Tested: **IFLD-S-SA2C-730-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476905
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-730-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

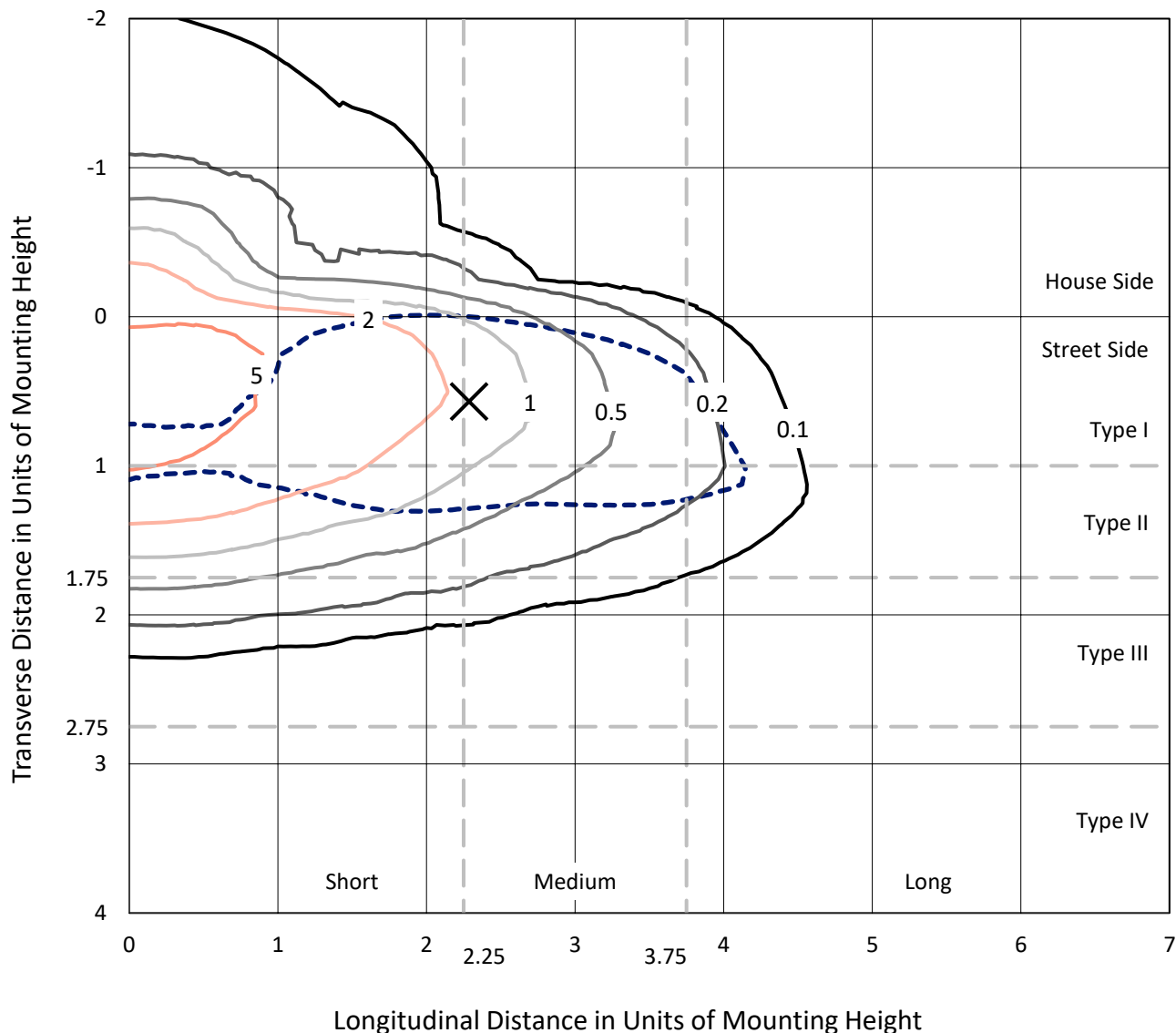
Lumens per Lamp: N/A
Luminaire Lumens: 13015.5 lumens
Efficiency: N/A
Efficacy: 120.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 108.2
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

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Iso-Footcandle Lines of Horizontal Illumination

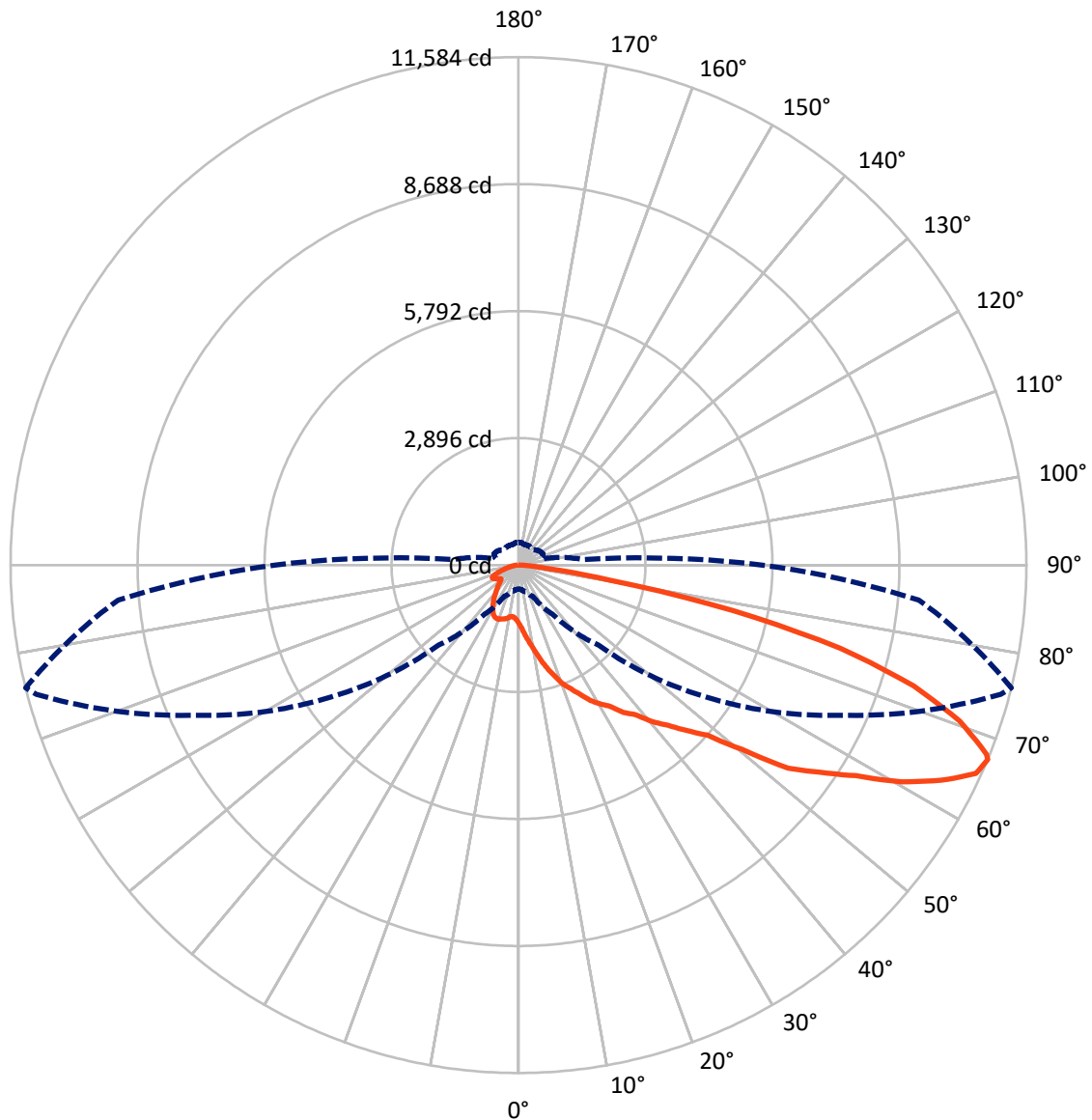
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1851.6	0.0	1851.6
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	11163.8	0.0	11163.8
	% Fixture	85.8	0.0	85.8
Total	Lumens	13015.5	0.0	13015.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.3	1.2
10°-20°	578.6	4.4
20°-30°	1075.8	8.3
30°-40°	1705.4	13.1
40°-50°	2358.7	18.1
50°-60°	2901.3	22.3
60°-70°	2699.8	20.7
70°-80°	1354.8	10.4
80°-90°	186.8	1.4
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°	13015.5	100.0
0°-180°	13015.5	100.0

Coefficient of Utilization

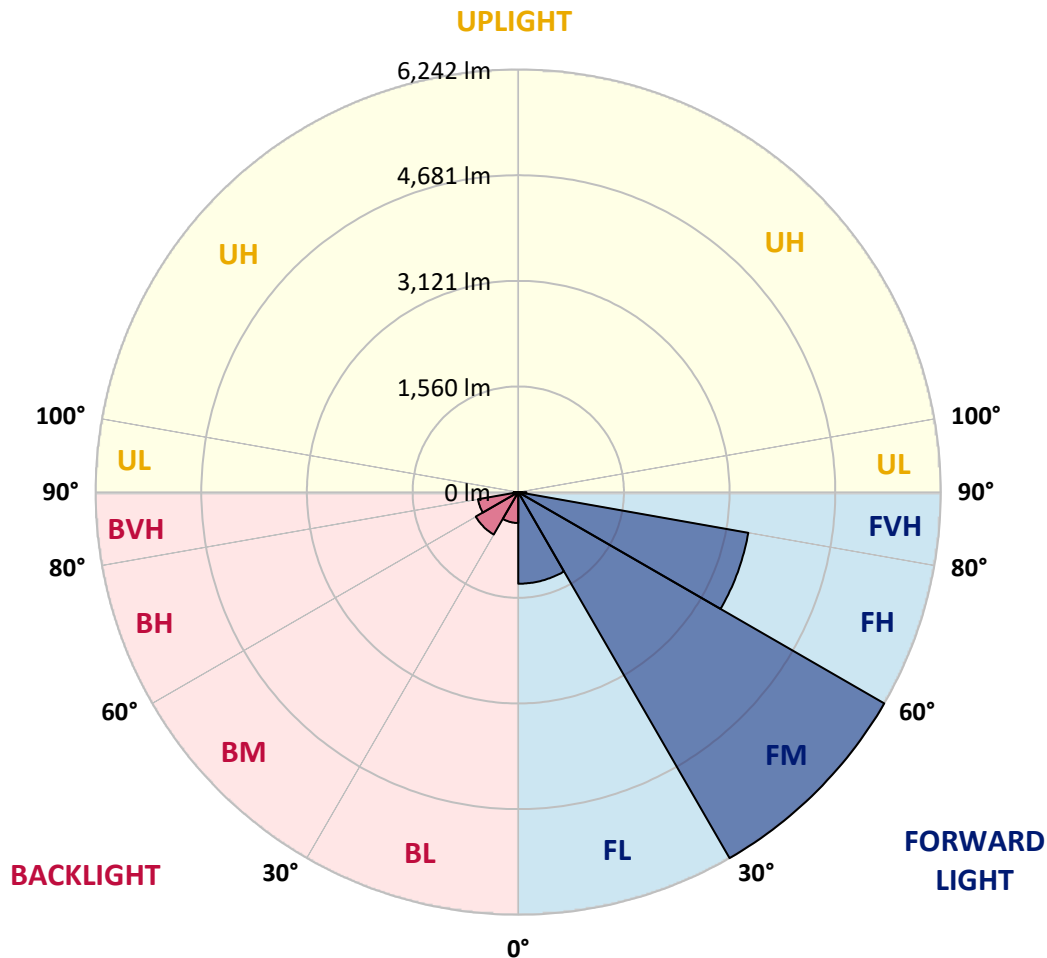


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1352.7	10.4			
FM (30°-60°)	6241.8	48.0			
FH (60°-80°)	3450.3	26.5			G2/5000
FVH (80°-90°)	119.0	0.9			G2/225
BL (0°-30°)	456.0	3.5	B1/500		
BM (30°-60°)	723.6	5.6	B1/1000		
BH (60°-80°)	604.3	4.6	B2/1000		G2/1000
BVH (80°-90°)	67.8	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1331.9	1331.9	1331.9	1331.9	1331.9	1331.9	1331.9	1331.9	1331.9	1331.9	1331.9
2.5°	1848.1	1825.8	1803.6	1756.1	1739.8	1695.3	1613.7	1523.3	1449.1	1438.7	1386.8
5°	2293.1	2260.4	2253.0	2226.3	2141.8	2055.7	1922.3	1776.9	1595.9	1609.3	1431.3
7.5°	2626.8	2607.5	2567.5	2542.2	2491.8	2377.6	2239.7	2046.8	1816.9	1772.5	1530.7
10°	2878.9	2852.2	2850.8	2828.5	2801.8	2684.6	2579.3	2319.8	2024.6	1963.8	1652.3
12.5°	3006.5	3002.0	3080.7	3080.7	3070.3	3021.3	2840.4	2603.1	2221.9	2201.1	1793.2
15°	3144.4	3107.4	3175.6	3227.5	3254.2	3279.4	3129.6	2878.9	2474.0	2434.0	1944.5
17.5°	3144.4	3141.5	3209.7	3295.7	3435.1	3467.8	3386.2	3132.6	2683.1	2653.5	2110.6
20°	3091.0	3134.0	3181.5	3297.2	3448.5	3580.5	3604.2	3392.1	2914.5	2890.8	2299.0
22.5°	3340.2	3298.7	3347.6	3392.1	3509.3	3709.5	3774.8	3620.5	3157.8	3067.3	2469.6
25°	3758.5	3730.3	3694.7	3629.4	3678.4	3765.9	3865.3	3789.6	3365.4	3264.6	2634.2
27.5°	4166.4	4167.9	4090.7	3948.3	3843.0	3860.8	3978.0	3938.0	3540.5	3496.0	2746.9
30°	4746.3	4710.7	4624.7	4431.9	4225.7	4056.6	4037.3	4075.9	3762.9	3676.9	2908.6
32.5°	5180.9	5188.3	5066.7	4789.3	4507.5	4369.6	4200.5	4216.8	3903.8	3840.1	3037.6
35°	5532.4	5523.5	5437.5	5207.6	4873.9	4707.7	4479.3	4385.9	4231.6	4130.8	3234.9
37.5°	5912.1	5839.4	5700.0	5440.5	5226.9	4997.0	4774.5	4563.9	4449.7	4328.0	3404.0
40°	6064.9	6064.9	5878.0	5759.4	5505.7	5332.2	5188.3	4798.2	4715.2	4691.4	3620.5
42.5°	5956.6	6023.4	5946.2	5811.3	5707.4	5487.9	5449.4	5041.5	5043.0	4995.5	3880.1
45°	5946.2	5854.3	5790.5	5824.6	5775.7	5763.8	5861.7	5378.2	5387.1	5381.1	4228.7
47.5°	5648.1	5606.6	5701.5	5757.9	5797.9	5981.8	6263.6	5780.1	5843.9	5799.4	4630.6
50°	5351.5	5344.1	5403.4	5608.1	5781.6	6084.2	6646.3	6400.1	6609.2	6606.3	5358.9
52.5°	4538.7	4617.3	4850.1	5283.2	5711.9	6223.6	6935.5	7192.1	7591.1	7699.4	5962.6
55°	3761.5	3719.9	4064.0	4692.9	5407.8	6278.5	7258.9	7668.3	8255.6	8334.2	6582.5
57.5°	2926.4	3003.5	3275.0	3878.6	4778.9	6007.1	7496.2	8138.4	9006.1	9066.9	7301.9
60°	2183.3	2193.7	2491.8	2978.3	3942.4	5394.5	7573.3	8620.5	9866.4	10039.9	8055.4
62.5°	1373.5	1435.8	1662.7	2141.8	2967.9	4537.2	7227.7	8912.7	10768.2	10814.2	8814.8
65°	740.1	780.2	950.7	1251.8	2073.5	3432.2	6311.1	8737.7	11192.4	11465.3	9153.0
67°	547.3	554.7	633.3	799.5	1386.8	2583.8	5262.5	8104.3	11385.2	11584.0	9166.3
67.5°	513.2	523.6	585.9	717.9	1229.6	2379.1	4988.1	7878.9	11299.2	11512.8	9062.5
70°	439.0	442.0	456.8	493.9	689.7	1431.3	3396.6	6456.5	10473.0	10677.7	8334.2
72.5°	390.1	393.1	399.0	406.4	467.2	827.6	2066.1	4968.8	9102.5	9428.8	7190.7
75°	342.6	353.0	356.0	350.0	397.5	538.4	1099.1	3651.7	7425.0	7583.7	5591.7
77.5°	290.7	295.2	301.1	307.0	354.5	402.0	528.0	2465.1	5096.4	4999.9	3024.3
80°	244.7	246.2	250.7	255.1	307.0	307.0	299.6	1331.9	2226.3	2128.4	1021.9
82.5°	175.0	185.4	195.8	207.7	255.1	206.2	195.8	593.3	704.5	670.4	345.6
85°	68.2	83.1	129.0	142.4	161.7	111.2	130.5	256.6	293.7	290.7	129.0
87.5°	11.9	13.3	35.6	54.9	59.3	38.6	62.3	92.0	109.8	118.7	47.5
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°	1331.9	1331.9	1331.9	1331.9	1331.9	1331.9	1331.9	1331.9	1331.9	1331.9	1331.9
2.5°	1343.8	1297.8	1242.9	1188.1	1152.5	1096.1	1091.7	1057.5	1053.1	1041.2	1047.2
5°	1354.2	1299.3	1188.1	1100.6	1060.5	1027.9	1035.3	1020.5	1016.0	1008.6	996.7
7.5°	1435.8	1327.5	1161.4	1085.7	1056.1	1041.2	1041.2	1023.4	1010.1	1019.0	1027.9
10°	1489.2	1340.8	1182.1	1106.5	1082.8	1050.1	1062.0	1039.7	1047.2	1029.4	1029.4
12.5°	1575.2	1416.5	1225.1	1137.6	1099.1	1069.4	1081.3	1056.1	1050.1	1051.6	1047.2
15°	1690.9	1466.9	1244.4	1155.4	1128.7	1091.7	1082.8	1060.5	1038.3	1030.8	1039.7
17.5°	1799.1	1529.2	1257.8	1165.8	1122.8	1081.3	1070.9	1042.7	1035.3	1013.0	995.2
20°	1928.2	1603.4	1275.6	1174.7	1100.6	1059.0	1032.3	1004.1	978.9	965.6	971.5
22.5°	2014.2	1641.9	1284.5	1156.9	1067.9	1029.4	973.0	953.7	918.1	903.3	891.4
25°	2155.1	1689.4	1262.2	1108.0	1010.1	947.8	897.3	870.7	845.4	826.2	820.2
27.5°	2190.7	1725.0	1210.3	1024.9	918.1	852.9	809.8	777.2	760.9	731.2	725.3
30°	2294.5	1689.4	1133.2	924.0	830.6	763.9	720.8	697.1	658.6	651.1	634.8
32.5°	2361.3	1699.8	1035.3	826.2	729.7	670.4	642.2	618.5	608.1	572.5	563.6
35°	2472.5	1664.2	935.9	735.7	646.7	600.7	577.0	569.6	535.4	519.1	504.3
37.5°	2543.7	1643.4	836.5	633.3	556.2	536.9	544.3	513.2	471.7	440.5	430.1
40°	2668.3	1636.0	723.8	548.8	493.9	489.5	513.2	453.9	378.2	351.5	336.7
42.5°	2847.8	1585.6	636.3	473.1	445.0	464.2	468.7	378.2	335.2	313.0	302.6
45°	3019.8	1595.9	550.3	391.6	387.1	415.3	404.9	320.4	295.2	278.8	287.7
47.5°	3350.6	1647.9	465.7	326.3	348.6	375.3	314.4	286.3	262.5	250.7	252.1
50°	3862.3	1698.3	391.6	298.1	329.3	339.7	269.9	259.6	258.1	234.3	232.9
52.5°	4169.3	1679.0	378.2	333.7	353.0	339.7	293.7	286.3	274.4	264.0	252.1
55°	4657.3	1735.4	406.4	390.1	400.5	326.3	329.3	326.3	317.4	290.7	298.1
57.5°	5045.9	1772.5	443.5	436.1	430.1	339.7	344.1	345.6	339.7	327.8	338.2
60°	5579.9	1846.6	482.0	483.5	485.0	369.3	376.7	385.6	384.2	379.7	382.7
62.5°	5907.7	1812.5	525.1	548.8	541.4	430.1	428.7	434.6	434.6	442.0	446.4
65°	5858.7	1686.4	547.3	606.6	568.1	474.6	474.6	477.6	479.1	493.9	495.4
67°	5565.1	1461.0	535.4	615.5	568.1	492.4	492.4	495.4	485.0	523.6	511.7
67.5°	5428.6	1394.2	525.1	608.1	563.6	490.9	490.9	492.4	483.5	520.6	508.7
70°	4721.1	1035.3	452.4	538.4	522.1	477.6	477.6	468.7	461.3	510.2	499.8
72.5°	4029.9	752.0	363.4	458.3	471.7	459.8	462.8	440.5	419.8	453.9	445.0
75°	3086.6	553.2	283.3	353.0	399.0	430.1	449.4	393.1	366.4	375.3	358.9
77.5°	1722.0	360.4	224.0	261.0	304.1	400.5	431.6	354.5	299.6	289.2	289.2
80°	584.4	210.6	164.6	194.3	209.1	354.5	403.4	287.7	235.8	225.4	218.0
82.5°	221.0	129.0	112.7	133.5	133.5	280.3	329.3	221.0	178.0	229.9	234.3
85°	100.9	77.1	74.2	77.1	77.1	172.1	232.9	143.9	160.2	137.9	121.6
87.5°	40.0	37.1	34.1	32.6	26.7	29.7	80.1	38.6	72.7	19.3	17.8
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)