

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: P477146

Luminaire Tested: **IFLD-S-SA3E-830-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477146
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3E-830-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

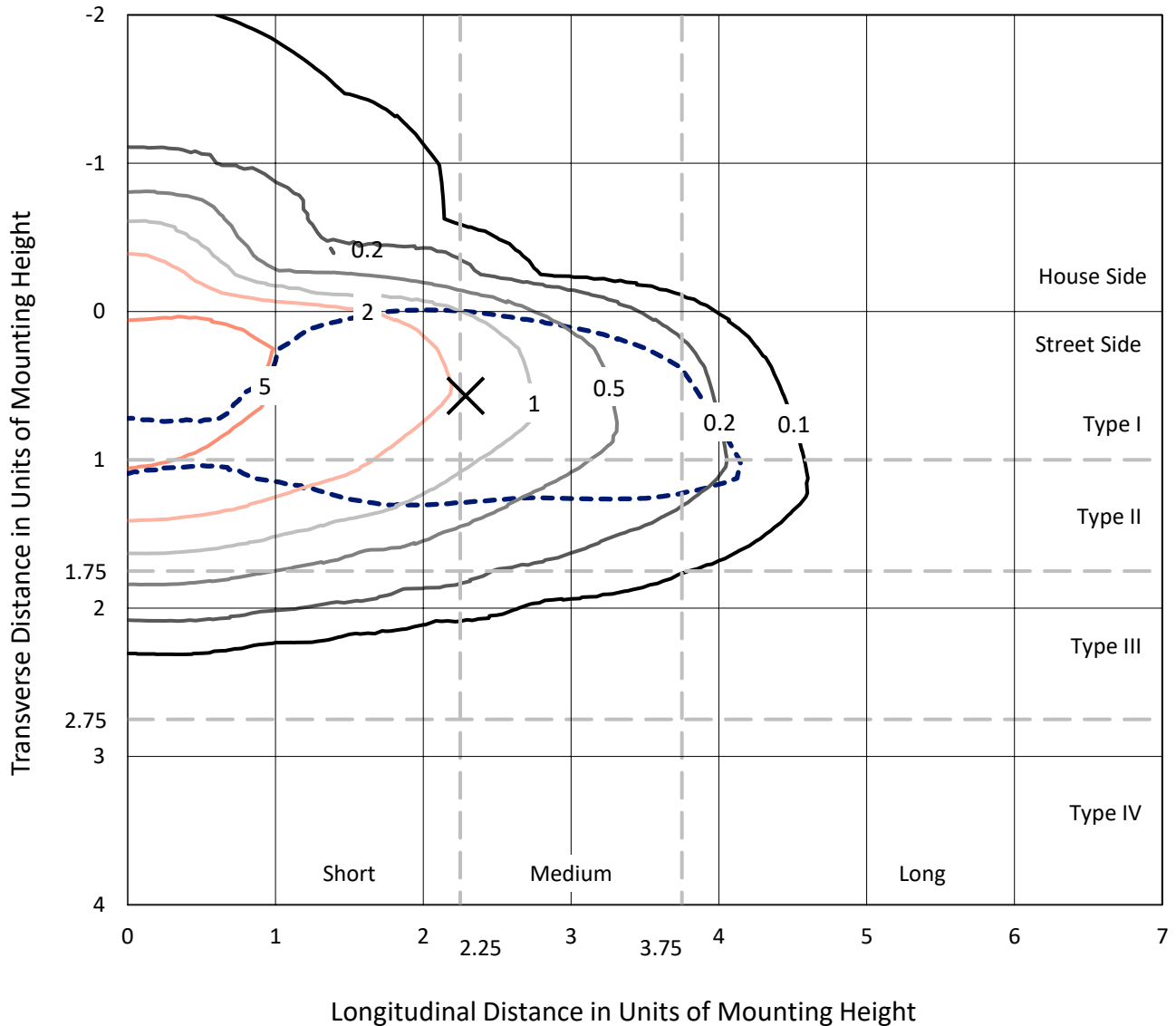
Lumens per Lamp: N/A
Luminaire Lumens: 21553.5 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 232.1
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

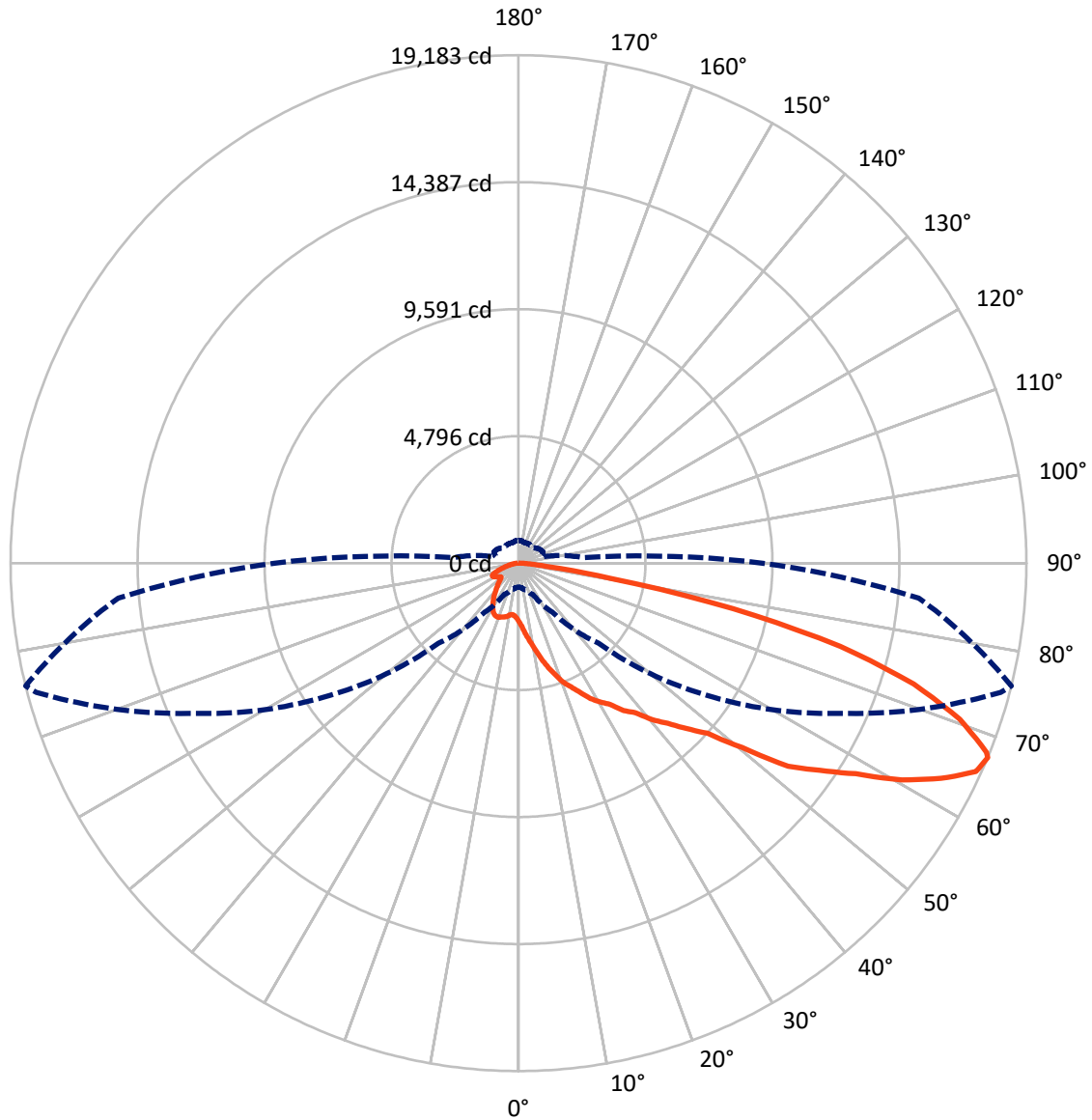
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 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	3066.3	0.0	3066.3
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	18487.2	0.0	18487.2
	% Fixture	85.8	0.0	85.8
Total	Lumens	21553.5	0.0	21553.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.5	1.2
10°-20°	958.2	4.4
20°-30°	1781.5	8.3
30°-40°	2824.1	13.1
40°-50°	3905.9	18.1
50°-60°	4804.6	22.3
60°-70°	4470.9	20.7
70°-80°	2243.5	10.4
80°-90°	309.3	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°	21553.5	100.0
0°-180°	21553.5	100.0

Coefficient of Utilization



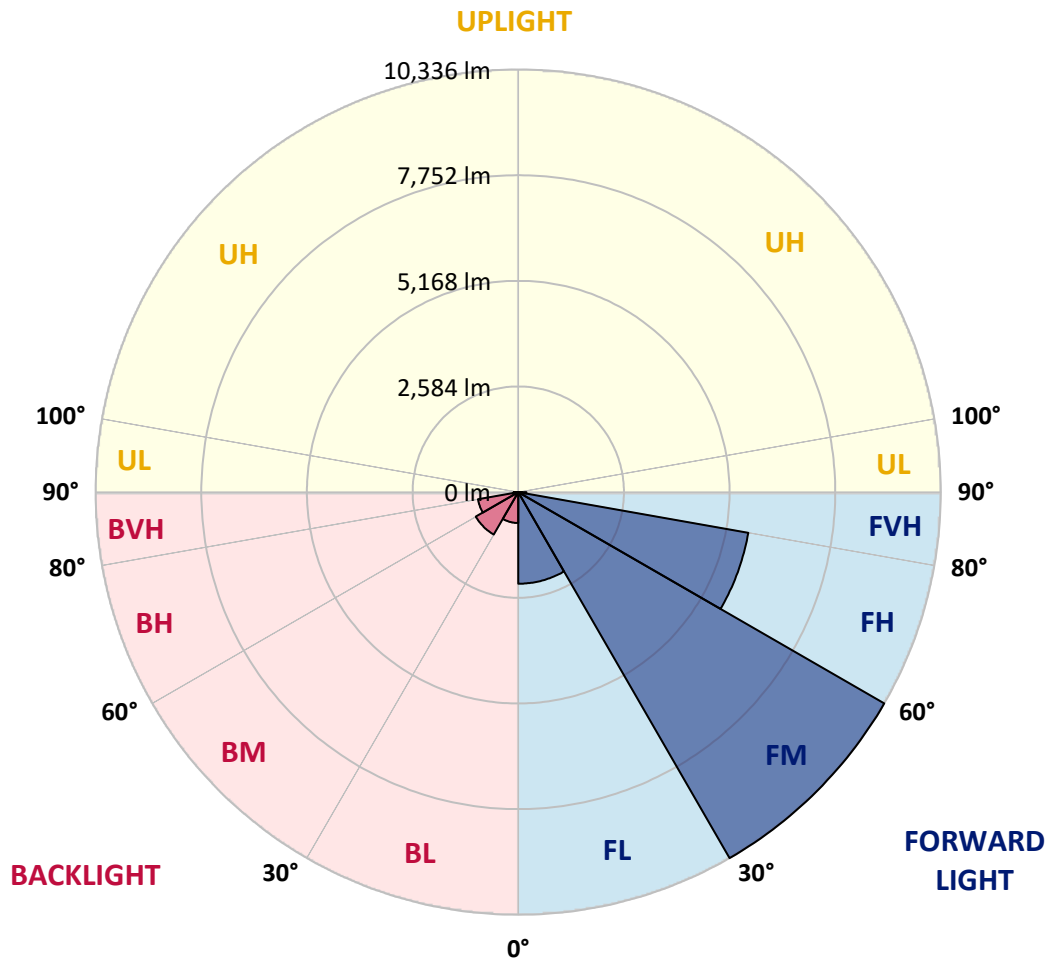
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2240.1	10.4			
FM (30°-60°)	10336.3	48.0			
FH (60°-80°)	5713.6	26.5			G3/7500
FVH (80°-90°)	197.1	0.9			G2/225
BL (0°-30°)	755.1	3.5	B2/1000		
BM (30°-60°)	1198.2	5.6	B2/2500		
BH (60°-80°)	1000.7	4.6	B3/2500		G3/2500
BVH (80°-90°)	112.3	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2205.7	2205.7	2205.7	2205.7	2205.7	2205.7	2205.7	2205.7	2205.7	2205.7	2205.7
2.5°	3060.4	3023.6	2986.7	2908.1	2881.1	2807.4	2672.3	2522.5	2399.7	2382.5	2296.5
5°	3797.3	3743.3	3731.0	3686.8	3546.8	3404.3	3183.2	2942.5	2642.9	2665.0	2370.2
7.5°	4349.9	4318.0	4251.7	4209.9	4126.4	3937.3	3708.9	3389.6	3008.8	2935.2	2534.8
10°	4767.5	4723.3	4720.8	4684.0	4639.8	4445.7	4271.3	3841.5	3352.7	3252.0	2736.2
12.5°	4978.7	4971.4	5101.5	5101.5	5084.3	5003.3	4703.6	4310.6	3679.4	3645.0	2969.5
15°	5207.1	5145.7	5258.7	5344.7	5388.9	5430.7	5182.6	4767.5	4096.9	4030.6	3220.1
17.5°	5207.1	5202.2	5315.2	5457.7	5688.6	5742.6	5607.5	5187.5	4443.3	4394.1	3495.2
20°	5118.7	5190.0	5268.6	5460.1	5710.7	5929.3	5968.6	5617.3	4826.4	4787.1	3807.1
22.5°	5531.4	5462.6	5543.6	5617.3	5811.4	6143.0	6251.0	5995.6	5229.3	5079.4	4089.6
25°	6224.0	6177.3	6118.4	6010.3	6091.4	6236.3	6400.9	6275.6	5573.1	5406.1	4362.2
27.5°	6899.5	6901.9	6774.2	6538.4	6364.0	6393.5	6587.5	6521.2	5863.0	5789.3	4548.9
30°	7859.8	7800.9	7658.4	7339.1	6997.7	6717.7	6685.8	6749.6	6231.4	6088.9	4816.6
32.5°	8579.5	8591.8	8390.4	7931.1	7464.4	7236.0	6956.0	6983.0	6464.7	6359.1	5030.3
35°	9161.6	9146.9	9004.4	8623.7	8071.1	7796.0	7417.7	7263.0	7007.5	6840.5	5357.0
37.5°	9790.4	9670.1	9439.2	9009.3	8655.7	8274.9	7906.5	7557.7	7368.6	7167.2	5637.0
40°	10043.4	10043.4	9733.9	9537.4	9117.4	8830.0	8591.8	7945.8	7808.3	7769.0	5995.6
42.5°	9864.1	9974.6	9846.9	9623.4	9451.5	9087.9	9024.1	8348.6	8351.1	8272.5	6425.4
45°	9846.9	9694.6	9589.0	9645.5	9564.4	9544.8	9706.9	8906.2	8920.9	8911.1	7002.6
47.5°	9353.2	9284.4	9441.6	9535.0	9601.3	9905.9	10372.5	9571.8	9677.4	9603.7	7668.3
50°	8862.0	8849.7	8947.9	9286.9	9574.3	10075.3	11006.2	10598.5	10944.8	10939.9	8874.3
52.5°	7516.0	7646.2	8031.8	8749.0	9458.8	10306.2	11485.2	11910.1	12570.8	12750.1	9873.9
55°	6228.9	6160.2	6730.0	7771.4	8955.3	10397.1	12020.7	12698.6	13671.2	13801.4	10900.6
57.5°	4846.1	4973.8	5423.3	6423.0	7913.9	9947.6	12413.6	13477.2	14914.1	15014.8	12091.9
60°	3615.5	3632.7	4126.4	4932.1	6528.6	8933.2	12541.4	14275.4	16338.7	16626.0	13339.6
62.5°	2274.4	2377.6	2753.4	3546.8	4914.9	7513.5	11969.1	14759.3	17832.0	17908.2	14597.2
65°	1225.6	1292.0	1574.4	2073.0	3433.8	5683.7	10451.1	14469.5	18534.5	18986.4	15157.2
67°	906.3	918.6	1048.8	1323.9	2296.5	4278.7	8714.6	13420.7	18853.8	19182.9	15179.3
67.5°	849.8	867.0	970.2	1188.8	2036.2	3939.7	8260.2	13047.3	18711.3	19065.0	15007.4
70°	727.0	731.9	756.5	817.9	1142.1	2370.2	5624.7	10691.8	17343.2	17682.2	13801.4
72.5°	646.0	650.9	660.7	673.0	773.7	1370.6	3421.5	8228.3	15073.7	15614.1	11907.7
75°	567.4	584.6	589.5	579.7	658.3	891.6	1820.0	6047.2	12295.7	12558.6	9259.9
77.5°	481.4	488.8	498.6	508.4	587.0	665.6	874.4	4082.2	8439.5	8279.9	5008.2
80°	405.3	407.7	415.1	422.5	508.4	508.4	496.2	2205.7	3686.8	3524.6	1692.3
82.5°	289.8	307.0	324.2	343.9	422.5	341.4	324.2	982.5	1166.7	1110.2	572.3
85°	113.0	137.5	213.7	235.8	267.7	184.2	216.1	424.9	486.3	481.4	213.7
87.5°	19.6	22.1	58.9	90.9	98.2	63.9	103.2	152.3	181.8	196.5	78.6
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°	2205.7	2205.7	2205.7	2205.7	2205.7	2205.7	2205.7	2205.7	2205.7	2205.7	2205.7
2.5°	2225.3	2149.2	2058.3	1967.4	1908.5	1815.1	1807.8	1751.3	1743.9	1724.3	1734.1
5°	2242.5	2151.6	1967.4	1822.5	1756.2	1702.1	1714.4	1689.9	1682.5	1670.2	1650.6
7.5°	2377.6	2198.3	1923.2	1797.9	1748.8	1724.3	1724.3	1694.8	1672.7	1687.4	1702.1
10°	2466.0	2220.4	1957.6	1832.3	1793.0	1739.0	1758.6	1721.8	1734.1	1704.6	1704.6
12.5°	2608.5	2345.7	2028.8	1883.9	1820.0	1770.9	1790.6	1748.8	1739.0	1741.4	1734.1
15°	2800.1	2429.2	2060.8	1913.4	1869.2	1807.8	1793.0	1756.2	1719.3	1707.1	1721.8
17.5°	2979.4	2532.3	2082.9	1930.6	1859.3	1790.6	1773.4	1726.7	1714.4	1677.6	1648.1
20°	3193.1	2655.2	2112.3	1945.3	1822.5	1753.7	1709.5	1662.8	1621.1	1599.0	1608.8
22.5°	3335.5	2719.0	2127.1	1915.8	1768.5	1704.6	1611.3	1579.3	1520.4	1495.8	1476.2
25°	3568.9	2797.6	2090.2	1834.8	1672.7	1569.5	1486.0	1441.8	1400.0	1368.1	1358.3
27.5°	3627.8	2856.6	2004.3	1697.2	1520.4	1412.3	1341.1	1287.0	1260.0	1210.9	1201.1
30°	3799.7	2797.6	1876.5	1530.2	1375.5	1264.9	1193.7	1154.4	1090.6	1078.3	1051.3
32.5°	3910.3	2814.8	1714.4	1368.1	1208.5	1110.2	1063.5	1024.2	1007.0	948.1	933.4
35°	4094.5	2755.9	1549.9	1218.3	1070.9	994.8	955.5	943.2	886.7	859.7	835.1
37.5°	4212.4	2721.5	1385.3	1048.8	921.1	889.1	901.4	849.8	781.1	729.5	712.3
40°	4418.7	2709.2	1198.6	908.8	817.9	810.5	849.8	751.6	626.3	582.1	557.6
42.5°	4715.9	2625.7	1053.7	783.5	736.9	768.8	776.2	626.3	555.1	518.3	501.1
45°	5000.8	2642.9	911.3	648.4	641.1	687.7	670.5	530.5	488.8	461.8	476.5
47.5°	5548.6	2728.8	771.2	540.4	577.2	621.4	520.7	474.0	434.7	415.1	417.6
50°	6395.9	2812.4	648.4	493.7	545.3	562.5	447.0	429.8	427.4	388.1	385.6
52.5°	6904.4	2780.4	626.3	552.6	584.6	562.5	486.3	474.0	454.4	437.2	417.6
55°	7712.5	2873.8	673.0	646.0	663.2	540.4	545.3	540.4	525.6	481.4	493.7
57.5°	8356.0	2935.2	734.4	722.1	712.3	562.5	569.8	572.3	562.5	542.8	560.0
60°	9240.2	3058.0	798.3	800.7	803.2	611.6	623.9	638.6	636.2	628.8	633.7
62.5°	9783.1	3001.5	869.5	908.8	896.5	712.3	709.8	719.7	719.7	731.9	739.3
65°	9702.0	2792.7	906.3	1004.6	940.7	786.0	786.0	790.9	793.4	817.9	820.4
67°	9215.7	2419.4	886.7	1019.3	940.7	815.5	815.5	820.4	803.2	867.0	847.4
67.5°	8989.7	2308.8	869.5	1007.0	933.4	813.0	813.0	815.5	800.7	862.1	842.5
70°	7818.1	1714.4	749.1	891.6	864.6	790.9	790.9	776.2	763.9	844.9	827.7
72.5°	6673.5	1245.3	601.8	759.0	781.1	761.4	766.3	729.5	695.1	751.6	736.9
75°	5111.4	916.2	469.1	584.6	660.7	712.3	744.2	650.9	606.7	621.4	594.4
77.5°	2851.7	596.9	370.9	432.3	503.5	663.2	714.8	587.0	496.2	479.0	479.0
80°	967.7	348.8	272.6	321.8	346.3	587.0	668.1	476.5	390.5	373.3	361.1
82.5°	366.0	213.7	186.7	221.1	221.1	464.2	545.3	366.0	294.7	380.7	388.1
85°	167.0	127.7	122.8	127.7	127.7	284.9	385.6	238.3	265.3	228.4	201.4
87.5°	66.3	61.4	56.5	54.0	44.2	49.1	132.6	63.9	120.4	31.9	29.5
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)