

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: P476986

Luminaire Tested: **IFLD-S-SA3A-740-U-T2R**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476986  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3A-740-U-T2R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens  
Light Source: (48) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

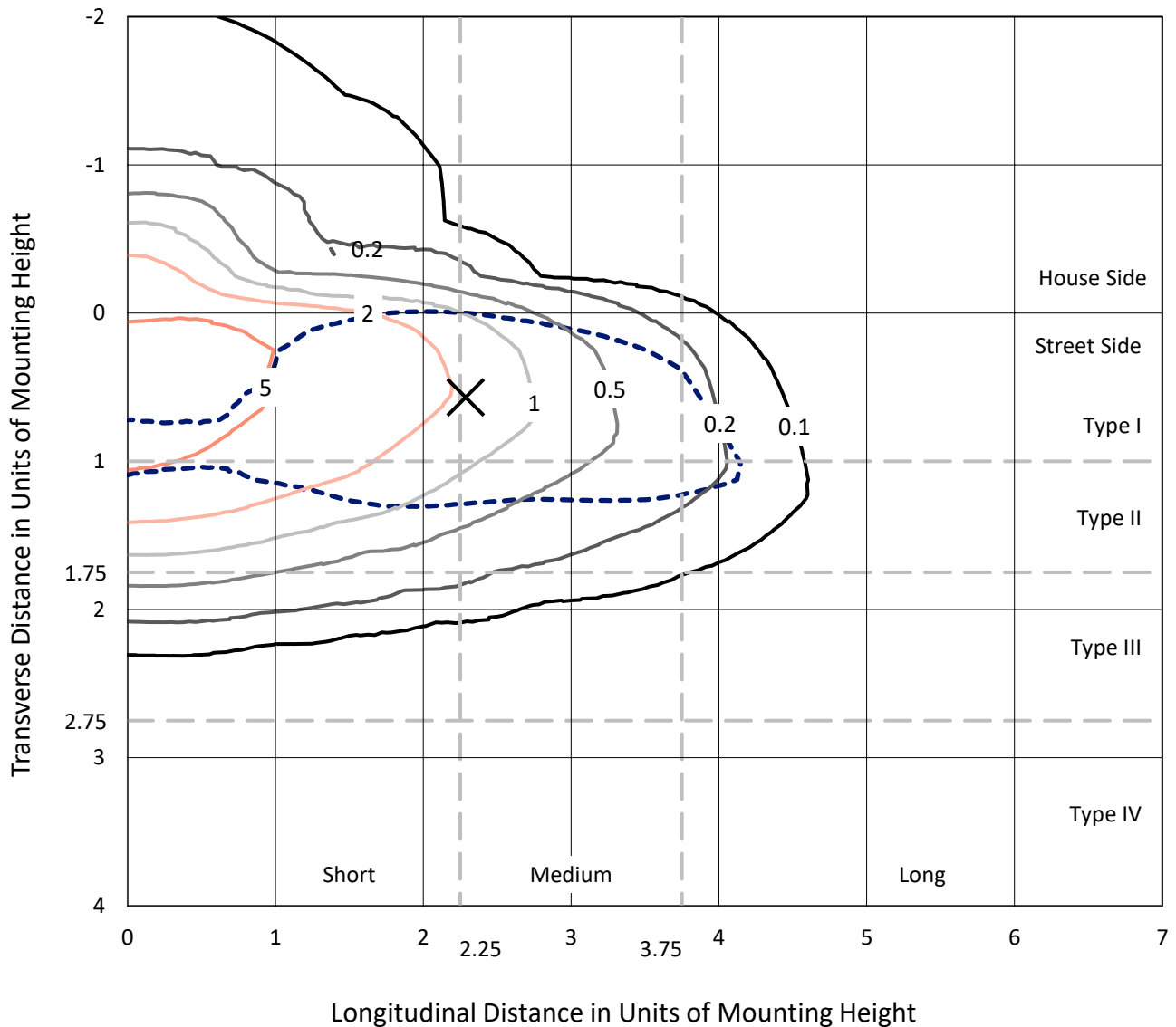
Lumens per Lamp: N/A  
Luminaire Lumens: 13835.8 lumens  
Efficiency: N/A  
Efficacy: 145.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2

Input Watts (W): 94.8  
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

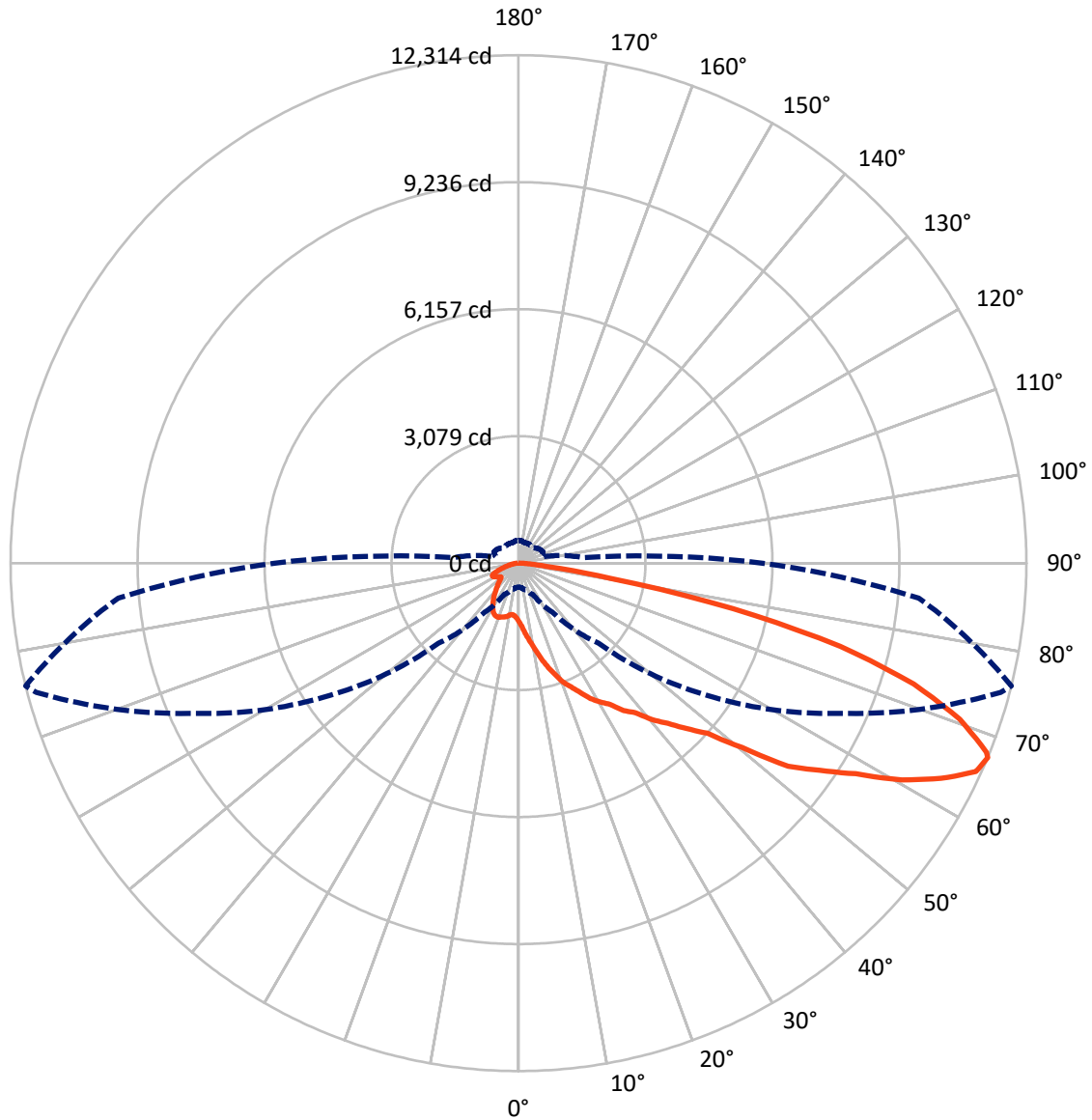
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.3 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
<b>House Side</b>	Lumens	1968.3	0.0	1968.3
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	11867.5	0.0	11867.5
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	13835.8	0.0	13835.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	164.0	1.2
10°-20°	615.1	4.4
20°-30°	1143.6	8.3
30°-40°	1812.9	13.1
40°-50°	2507.3	18.1
50°-60°	3084.2	22.3
60°-70°	2870.0	20.7
70°-80°	1440.1	10.4
80°-90°	198.6	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°	13835.8	100.0
0°-180°	13835.8	100.0

**Coefficient of Utilization**



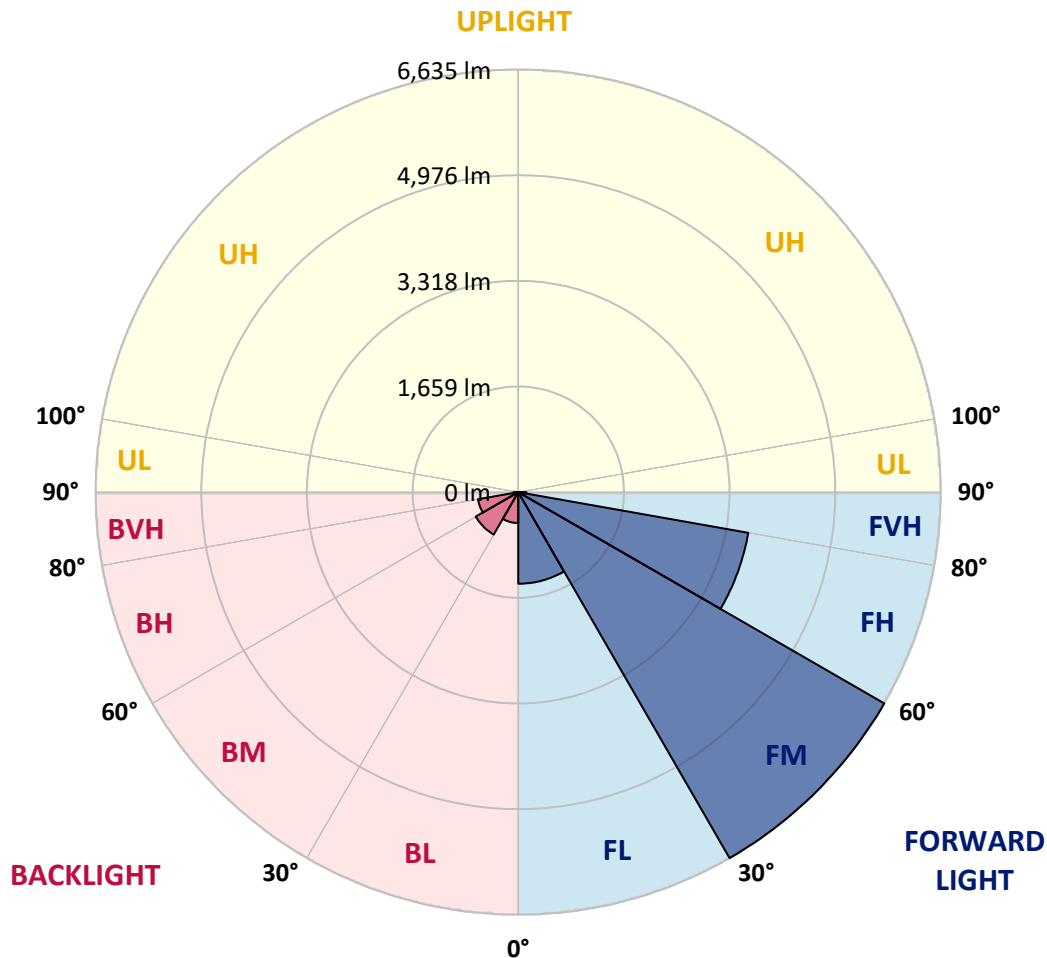
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1438.0	10.4			
FM (30°-60°)	6635.2	48.0			
FH (60°-80°)	3667.8	26.5			G2/5000
FVH (80°-90°)	126.5	0.9			G2/225
BL (0°-30°)	484.7	3.5	B1/500		
BM (30°-60°)	769.2	5.6	B1/1000		
BH (60°-80°)	642.4	4.6	B2/1000		G2/1000
BVH (80°-90°)	72.1	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°	1415.9	1415.9	1415.9	1415.9	1415.9	1415.9	1415.9	1415.9	1415.9	1415.9	1415.9
2.5°	1964.6	1940.9	1917.3	1866.8	1849.5	1802.2	1715.5	1619.3	1540.4	1529.4	1474.2
5°	2437.6	2402.9	2395.0	2366.6	2276.8	2185.3	2043.4	1888.9	1696.5	1710.7	1521.5
7.5°	2792.4	2771.9	2729.3	2702.5	2648.9	2527.5	2380.8	2175.9	1931.5	1884.2	1627.2
10°	3060.4	3032.0	3030.4	3006.8	2978.4	2853.8	2741.9	2466.0	2152.2	2087.6	1756.5
12.5°	3196.0	3191.3	3274.8	3274.8	3263.8	3211.8	3019.4	2767.1	2361.9	2339.8	1906.2
15°	3342.6	3303.2	3375.7	3430.9	3459.3	3486.1	3326.9	3060.4	2630.0	2587.4	2067.1
17.5°	3342.6	3339.5	3412.0	3503.5	3651.7	3686.4	3599.6	3330.0	2852.3	2820.7	2243.7
20°	3285.9	3331.6	3382.0	3505.0	3665.9	3806.2	3831.4	3605.9	3098.2	3073.0	2443.9
22.5°	3550.8	3506.6	3558.6	3605.9	3730.5	3943.4	4012.7	3848.8	3356.8	3260.6	2625.2
25°	3995.4	3965.4	3927.6	3858.2	3910.2	4003.3	4108.9	4028.5	3577.6	3470.3	2800.2
27.5°	4429.0	4430.6	4348.6	4197.2	4085.3	4104.2	4228.7	4186.2	3763.6	3716.3	2920.1
30°	5045.5	5007.6	4916.2	4711.2	4492.1	4312.3	4291.8	4332.8	4000.1	3908.7	3091.9
32.5°	5507.5	5515.3	5386.0	5091.2	4791.6	4645.0	4465.2	4482.6	4149.9	4082.1	3229.1
35°	5881.1	5871.7	5780.2	5535.8	5181.1	5004.5	4761.7	4662.3	4498.4	4391.1	3438.8
37.5°	6284.8	6207.5	6059.3	5783.4	5556.3	5311.9	5075.4	4851.5	4730.1	4600.8	3618.6
40°	6447.2	6447.2	6248.5	6122.4	5852.8	5668.3	5515.3	5100.7	5012.4	4987.1	3848.8
42.5°	6332.1	6403.0	6321.0	6177.6	6067.2	5833.8	5792.8	5359.2	5360.8	5310.4	4124.7
45°	6321.0	6223.3	6155.5	6191.7	6139.7	6127.1	6231.2	5717.2	5726.6	5720.3	4495.2
47.5°	6004.1	5960.0	6060.9	6120.8	6163.4	6358.9	6658.5	6144.4	6212.2	6164.9	4922.5
50°	5688.8	5680.9	5744.0	5961.5	6146.0	6467.7	7065.2	6803.5	7025.8	7022.7	5696.7
52.5°	4824.7	4908.3	5155.8	5616.2	6071.9	6615.9	7372.7	7645.5	8069.6	8184.7	6338.4
55°	3998.5	3954.4	4320.2	4988.7	5748.7	6674.2	7716.4	8151.6	8776.0	8859.5	6997.4
57.5°	3110.9	3192.8	3481.4	4123.1	5080.2	6385.7	7968.7	8651.4	9573.8	9638.4	7762.2
60°	2320.9	2332.0	2648.9	3166.0	4190.9	5734.5	8050.7	9163.9	10488.3	10672.8	8563.1
62.5°	1460.0	1526.3	1767.5	2276.8	3155.0	4823.2	7683.3	9474.5	11446.9	11495.8	9370.4
65°	786.8	829.4	1010.7	1330.7	2204.2	3648.5	6708.9	9288.4	11897.9	12188.0	9729.9
67°	581.8	589.7	673.3	849.8	1474.2	2746.6	5594.2	8615.2	12102.8	12314.1	9744.1
67.5°	545.5	556.6	622.8	763.1	1307.1	2529.0	5302.5	8375.5	12011.4	12238.4	9633.7
70°	466.7	469.9	485.6	525.0	733.2	1521.5	3610.7	6863.4	11133.2	11350.8	8859.5
72.5°	414.7	417.8	424.1	432.0	496.7	879.8	2196.4	5282.0	9676.3	10023.2	7643.9
75°	364.2	375.3	378.4	372.1	422.6	572.3	1168.3	3881.9	7893.0	8061.7	5944.2
77.5°	309.0	313.8	320.1	326.4	376.8	427.3	561.3	2620.5	5417.6	5315.1	3214.9
80°	260.2	261.7	266.5	271.2	326.4	326.4	318.5	1415.9	2366.6	2262.6	1086.4
82.5°	186.1	197.1	208.1	220.7	271.2	219.2	208.1	630.7	748.9	712.7	367.4
85°	72.5	88.3	137.2	151.4	171.9	118.3	138.8	272.8	312.2	309.0	137.2
87.5°	12.6	14.2	37.8	58.3	63.1	41.0	66.2	97.8	116.7	126.1	50.5
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°	1415.9	1415.9	1415.9	1415.9	1415.9	1415.9	1415.9	1415.9	1415.9	1415.9	1415.9
2.5°	1428.5	1379.6	1321.3	1262.9	1225.1	1165.2	1160.5	1124.2	1119.5	1106.9	1113.2
5°	1439.5	1381.2	1262.9	1169.9	1127.3	1092.7	1100.5	1084.8	1080.0	1072.2	1059.6
7.5°	1526.3	1411.2	1234.6	1154.2	1122.6	1106.9	1106.9	1087.9	1073.7	1083.2	1092.7
10°	1583.0	1425.3	1256.6	1176.2	1151.0	1116.3	1128.9	1105.3	1113.2	1094.2	1094.2
12.5°	1674.5	1505.8	1302.4	1209.3	1168.3	1136.8	1149.4	1122.6	1116.3	1117.9	1113.2
15°	1797.5	1559.4	1322.9	1228.3	1199.9	1160.5	1151.0	1127.3	1103.7	1095.8	1105.3
17.5°	1912.6	1625.6	1337.1	1239.3	1193.6	1149.4	1138.4	1108.4	1100.5	1076.9	1058.0
20°	2049.7	1704.4	1356.0	1248.8	1169.9	1125.8	1097.4	1067.4	1040.6	1026.4	1032.7
22.5°	2141.2	1745.4	1365.4	1229.8	1135.2	1094.2	1034.3	1013.8	976.0	960.2	947.6
25°	2291.0	1795.9	1341.8	1177.8	1073.7	1007.5	953.9	925.5	898.7	878.2	871.9
27.5°	2328.8	1833.7	1286.6	1089.5	976.0	906.6	860.9	826.2	808.9	777.3	771.0
30°	2439.2	1795.9	1204.6	982.3	883.0	812.0	766.3	741.1	700.1	692.2	674.8
32.5°	2510.1	1806.9	1100.5	878.2	775.7	712.7	682.7	657.5	646.5	608.6	599.2
35°	2628.4	1769.1	994.9	782.0	687.4	638.6	613.3	605.5	569.2	551.8	536.1
37.5°	2704.1	1747.0	889.3	673.3	591.3	570.8	578.7	545.5	501.4	468.3	457.2
40°	2836.5	1739.1	769.4	583.4	525.0	520.3	545.5	482.5	402.1	373.7	357.9
42.5°	3027.3	1685.5	676.4	503.0	473.0	493.5	498.2	402.1	356.3	332.7	321.6
45°	3210.2	1696.5	585.0	416.3	411.5	441.5	430.4	340.6	313.8	296.4	305.9
47.5°	3561.8	1751.7	495.1	346.9	370.5	398.9	334.3	304.3	279.1	266.5	268.0
50°	4105.8	1805.3	416.3	316.9	350.0	361.1	287.0	275.9	274.3	249.1	247.5
52.5°	4432.1	1784.8	402.1	354.8	375.3	361.1	312.2	304.3	291.7	280.7	268.0
55°	4950.9	1844.8	432.0	414.7	425.7	346.9	350.0	346.9	337.4	309.0	316.9
57.5°	5364.0	1884.2	471.4	463.6	457.2	361.1	365.8	367.4	361.1	348.5	359.5
60°	5931.6	1963.0	512.4	514.0	515.6	392.6	400.5	409.9	408.4	403.6	406.8
62.5°	6280.0	1926.7	558.2	583.4	575.5	457.2	455.7	462.0	462.0	469.9	474.6
65°	6228.0	1792.7	581.8	644.9	603.9	504.5	504.5	507.7	509.3	525.0	526.6
67°	5915.8	1553.1	569.2	654.3	603.9	523.5	523.5	526.6	515.6	556.6	544.0
67.5°	5770.8	1482.1	558.2	646.5	599.2	521.9	521.9	523.5	514.0	553.4	540.8
70°	5018.7	1100.5	480.9	572.3	555.0	507.7	507.7	498.2	490.4	542.4	531.4
72.5°	4283.9	799.4	386.3	487.2	501.4	488.8	491.9	468.3	446.2	482.5	473.0
75°	3281.1	588.1	301.2	375.3	424.1	457.2	477.7	417.8	389.4	398.9	381.6
77.5°	1830.6	383.1	238.1	277.5	323.2	425.7	458.8	376.8	318.5	307.5	307.5
80°	621.2	223.9	175.0	206.5	222.3	376.8	428.9	305.9	250.7	239.7	231.8
82.5°	234.9	137.2	119.8	141.9	141.9	298.0	350.0	234.9	189.2	244.4	249.1
85°	107.2	82.0	78.8	82.0	82.0	182.9	247.5	152.9	170.3	146.6	129.3
87.5°	42.6	39.4	36.3	34.7	28.4	31.5	85.1	41.0	77.3	20.5	18.9
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)