

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: P477044

Luminaire Tested: **IFLD-S-SA6E-750-U-T2R**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P477044  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6E-750-U-T2R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens  
Light Source: (96) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

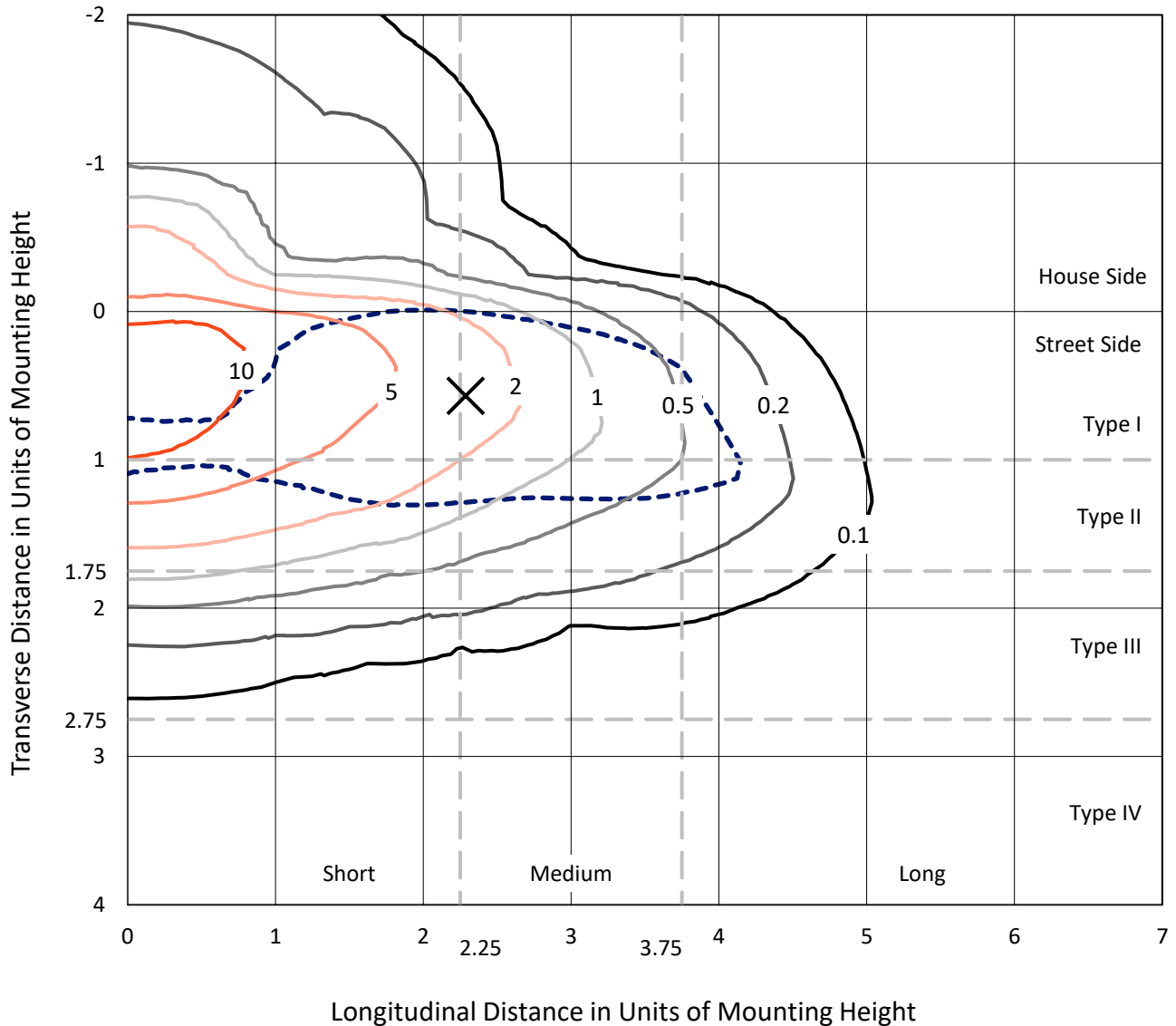
Lumens per Lamp: N/A  
Luminaire Lumens: 54428.9 lumens  
Efficiency: N/A  
Efficacy: 117.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G5

Input Watts (W): 464.2  
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

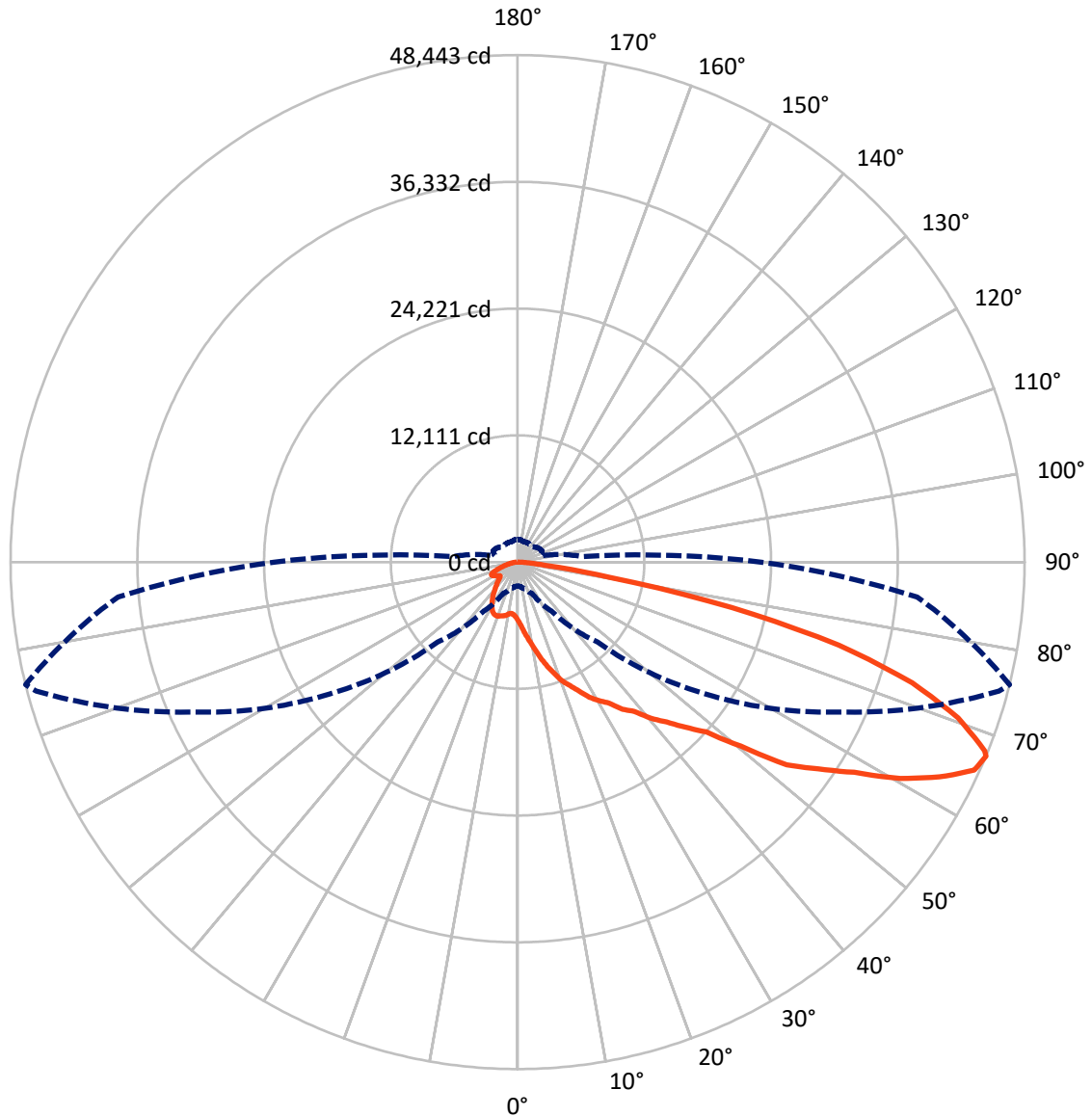
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 14.4 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	7743.2	0.0	7743.2
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	46685.7	0.0	46685.7
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	54428.9	0.0	54428.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	645.2	1.2
10°-20°	2419.8	4.4
20°-30°	4498.8	8.3
30°-40°	7131.6	13.1
40°-50°	9863.7	18.1
50°-60°	12132.9	22.3
60°-70°	11290.3	20.7
70°-80°	5665.4	10.4
80°-90°	781.2	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°	54428.9	100.0
0°-180°	54428.9	100.0

**Coefficient of Utilization**

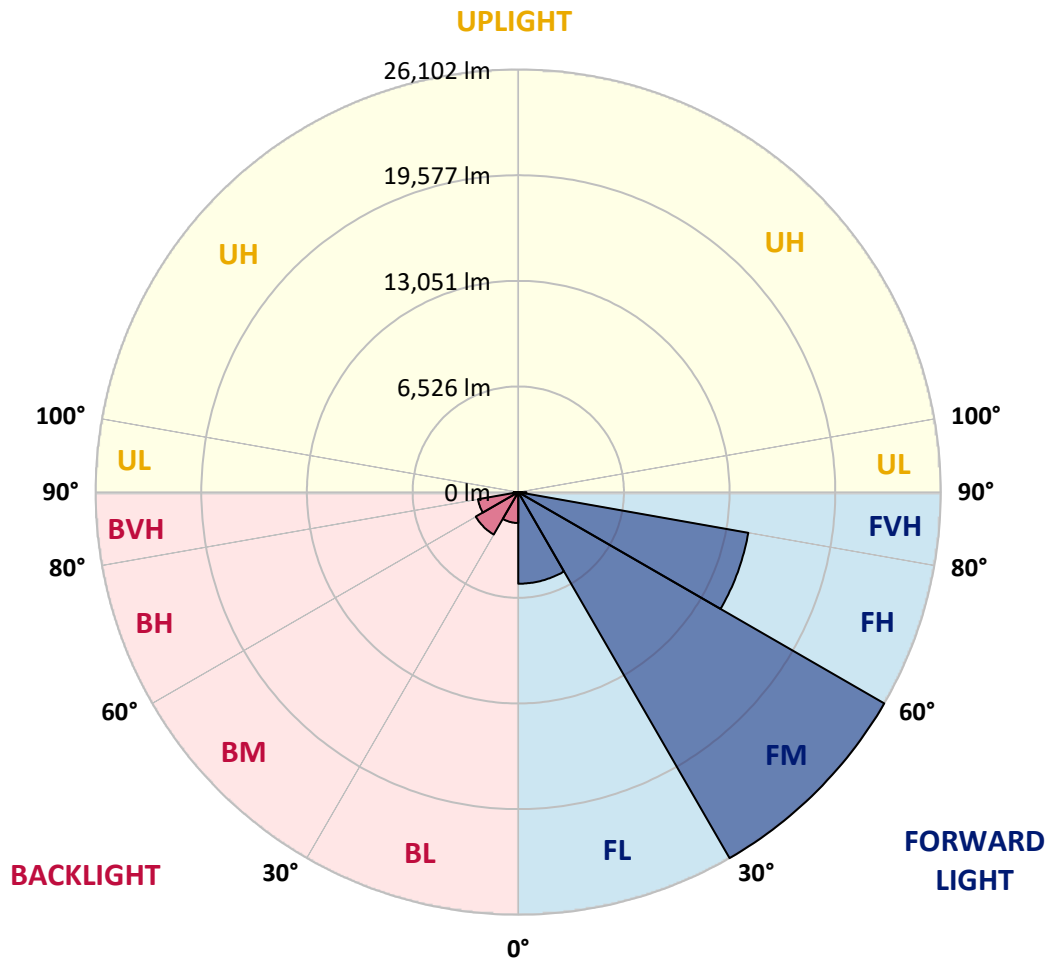


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5657.0	10.4			
FM (30°-60°)	26102.3	48.0			
FH (60°-80°)	14428.6	26.5			G5
FVH (80°-90°)	497.7	0.9			G3/500
BL (0°-30°)	1906.8	3.5	B3/2500		
BM (30°-60°)	3025.9	5.6	B3/5000		
BH (60°-80°)	2527.0	4.6	B4/5000		G4/5000
BVH (80°-90°)	283.5	0.5			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 II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5570.0	5570.0	5570.0	5570.0	5570.0	5570.0	5570.0	5570.0	5570.0	5570.0	5570.0
2.5°	7728.5	7635.4	7542.4	7343.9	7275.7	7089.6	6748.5	6370.1	6060.0	6016.6	5799.5
5°	9589.3	9452.8	9421.8	9310.1	8956.6	8596.8	8038.6	7430.8	6674.0	6729.9	5985.5
7.5°	10984.9	10904.2	10736.8	10631.3	10420.4	9942.8	9366.0	8559.6	7598.2	7412.1	6401.1
10°	12039.3	11927.7	11921.5	11828.4	11716.8	11226.8	10786.4	9700.9	8466.6	8212.3	6909.7
12.5°	12572.7	12554.1	12882.9	12882.9	12839.4	12634.8	11878.0	10885.6	9291.5	9204.7	7499.0
15°	13149.6	12994.5	13279.8	13496.9	13608.6	13714.0	13087.6	12039.3	10346.0	10178.5	8131.6
17.5°	13149.6	13137.2	13422.5	13782.2	14365.3	14501.8	14160.6	13100.0	11220.6	11096.5	8826.3
20°	12926.3	13106.2	13304.6	13788.4	14421.1	14973.2	15072.4	14185.4	12188.2	12088.9	9614.1
22.5°	13968.3	13794.7	13999.3	14185.4	14675.4	15512.8	15785.7	15140.6	13205.4	12827.0	10327.4
25°	15717.5	15599.6	15450.8	15177.8	15382.5	15748.5	16164.1	15847.7	14073.8	13652.0	11015.9
27.5°	17423.2	17429.4	17106.9	16511.4	16071.0	16145.4	16635.5	16468.0	14805.7	14619.6	11487.3
30°	19848.4	19699.6	19339.8	18533.5	17671.3	16964.2	16883.6	17044.8	15736.1	15376.3	12163.4
32.5°	21665.8	21696.8	21188.2	20028.3	18849.8	18273.0	17565.9	17634.1	16325.3	16058.6	12703.0
35°	23135.8	23098.6	22738.8	21777.4	20381.8	19687.2	18731.9	18341.2	17696.1	17274.3	13527.9
37.5°	24723.7	24419.8	23836.7	22751.3	21858.1	20896.7	19966.3	19085.5	18607.9	18099.3	14235.0
40°	25362.6	25362.6	24581.0	24084.8	23024.2	22298.5	21696.8	20065.5	19718.2	19618.9	15140.6
42.5°	24909.8	25188.9	24866.3	24301.9	23867.7	22949.7	22788.5	21082.7	21088.9	20890.5	16226.1
45°	24866.3	24481.8	24215.1	24357.7	24153.0	24103.4	24512.8	22490.7	22528.0	22503.1	17683.7
47.5°	23619.6	23445.9	23842.9	24078.6	24246.1	25015.2	26193.7	24171.7	24438.4	24252.3	19364.6
50°	22379.1	22348.1	22596.2	23452.1	24177.9	25443.2	27794.0	26764.4	27638.9	27626.5	22410.1
52.5°	18980.1	19308.8	20282.6	22093.8	23886.3	26026.2	29003.5	30076.6	31745.1	32197.9	24934.6
55°	15729.9	15556.2	16995.2	19625.1	22614.8	26255.7	30355.7	32067.6	34523.8	34852.6	27527.3
57.5°	12237.8	12560.3	13695.4	16219.9	19984.9	25120.7	31348.1	34033.8	37662.4	37916.7	30535.6
60°	9130.3	9173.7	10420.4	12454.9	16486.6	22559.0	31670.6	36049.7	41259.9	41985.6	33686.5
62.5°	5743.6	6004.1	6953.1	8956.6	12411.5	18973.8	30225.4	37271.6	45031.1	45223.4	36862.2
65°	3095.1	3262.6	3975.9	5235.0	8671.3	14352.9	26392.2	36539.7	46805.1	47946.3	38276.4
67°	2288.8	2319.8	2648.5	3343.2	5799.5	10805.0	22006.9	33891.2	47611.4	48442.6	38332.3
67.5°	2146.1	2189.5	2450.0	3002.1	5142.0	9949.0	20859.4	32948.4	47251.6	48144.8	37898.1
70°	1836.0	1848.4	1910.4	2065.5	2884.2	5985.5	14204.0	27000.1	43796.8	44652.7	34852.6
72.5°	1631.3	1643.7	1668.5	1699.5	1953.8	3461.1	8640.3	20778.8	38065.5	39430.1	30070.4
75°	1432.8	1476.2	1488.6	1463.8	1662.3	2251.6	4596.1	15270.9	31050.4	31714.1	23383.9
77.5°	1215.7	1234.3	1259.1	1283.9	1482.4	1680.9	2208.1	10308.8	21312.2	20909.1	12647.2
80°	1023.4	1029.6	1048.2	1066.9	1283.9	1283.9	1252.9	5570.0	9310.1	8900.8	4273.6
82.5°	731.9	775.3	818.7	868.4	1066.9	862.2	818.7	2481.1	2946.2	2803.6	1445.2
85°	285.3	347.3	539.6	595.5	676.1	465.2	545.8	1073.1	1228.1	1215.7	539.6
87.5°	49.6	55.8	148.9	229.5	248.1	161.3	260.5	384.6	459.0	496.2	198.5
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°	5570.0	5570.0	5570.0	5570.0	5570.0	5570.0	5570.0	5570.0	5570.0	5570.0	5570.0
2.5°	5619.6	5427.3	5197.8	4968.3	4819.4	4583.7	4565.1	4422.5	4403.9	4354.2	4379.1
5°	5663.0	5433.5	4968.3	4602.4	4434.9	4298.4	4329.4	4267.4	4248.8	4217.8	4168.2
7.5°	6004.1	5551.4	4856.7	4540.3	4416.3	4354.2	4354.2	4279.8	4224.0	4261.2	4298.4
10°	6227.4	5607.2	4943.5	4627.2	4527.9	4391.5	4441.1	4348.0	4379.1	4304.6	4304.6
12.5°	6587.2	5923.5	5123.4	4757.4	4596.1	4472.1	4521.7	4416.3	4391.5	4397.7	4379.1
15°	7071.0	6134.4	5204.0	4831.8	4720.2	4565.1	4527.9	4434.9	4341.8	4310.8	4348.0
17.5°	7523.8	6394.9	5259.8	4875.3	4695.4	4521.7	4478.3	4360.4	4329.4	4236.4	4162.0
20°	8063.4	6705.0	5334.3	4912.5	4602.4	4428.7	4317.0	4199.2	4093.7	4037.9	4062.7
22.5°	8423.2	6866.3	5371.5	4838.1	4465.9	4304.6	4068.9	3988.3	3839.4	3777.4	3727.8
25°	9012.4	7064.8	5278.4	4633.4	4224.0	3963.5	3752.6	3640.9	3535.5	3454.9	3430.1
27.5°	9161.3	7213.7	5061.3	4286.0	3839.4	3566.5	3386.6	3250.2	3181.9	3057.9	3033.1
30°	9595.5	7064.8	4738.8	3864.2	3473.5	3194.4	3014.5	2915.2	2754.0	2723.0	2654.7
32.5°	9874.6	7108.2	4329.4	3454.9	3051.7	2803.6	2685.7	2586.5	2543.1	2394.2	2357.0
35°	10339.8	6959.4	3913.9	3076.5	2704.3	2512.1	2412.8	2381.8	2239.1	2170.9	2108.9
37.5°	10637.5	6872.5	3498.3	2648.5	2326.0	2245.4	2276.4	2146.1	1972.4	1842.2	1798.8
40°	11158.5	6841.5	3026.9	2295.0	2065.5	2046.9	2146.1	1898.0	1581.7	1470.0	1408.0
42.5°	11909.1	6630.6	2660.9	1978.6	1860.8	1941.4	1960.0	1581.7	1401.8	1308.8	1265.3
45°	12628.6	6674.0	2301.2	1637.5	1618.9	1736.7	1693.3	1339.8	1234.3	1166.1	1203.3
47.5°	14011.7	6891.1	1947.6	1364.6	1457.6	1569.3	1315.0	1197.1	1097.9	1048.2	1054.4
50°	16151.7	7102.0	1637.5	1246.7	1377.0	1420.4	1128.9	1085.5	1079.3	980.0	973.8
52.5°	17435.6	7021.4	1581.7	1395.6	1476.2	1420.4	1228.1	1197.1	1147.5	1104.1	1054.4
55°	19476.3	7257.1	1699.5	1631.3	1674.7	1364.6	1377.0	1364.6	1327.4	1215.7	1246.7
57.5°	21101.4	7412.1	1854.6	1823.6	1798.8	1420.4	1439.0	1445.2	1420.4	1370.8	1414.2
60°	23334.3	7722.3	2015.9	2022.1	2028.3	1544.5	1575.5	1612.7	1606.5	1587.9	1600.3
62.5°	24705.1	7579.6	2195.7	2295.0	2264.0	1798.8	1792.6	1817.4	1817.4	1848.4	1867.0
65°	24500.4	7052.4	2288.8	2536.9	2375.6	1984.8	1984.8	1997.2	2003.4	2065.5	2071.7
67°	23272.3	6109.6	2239.1	2574.1	2375.6	2059.3	2059.3	2071.7	2028.3	2189.5	2139.9
67.5°	22701.6	5830.5	2195.7	2543.1	2357.0	2053.1	2053.1	2059.3	2022.1	2177.1	2127.5
70°	19743.0	4329.4	1891.8	2251.6	2183.3	1997.2	1997.2	1960.0	1929.0	2133.7	2090.3
72.5°	16852.5	3144.7	1519.6	1916.6	1972.4	1922.8	1935.2	1842.2	1755.3	1898.0	1860.8
75°	12907.7	2313.6	1184.7	1476.2	1668.5	1798.8	1879.4	1643.7	1532.0	1569.3	1501.0
77.5°	7201.3	1507.2	936.6	1091.7	1271.5	1674.7	1805.0	1482.4	1252.9	1209.5	1209.5
80°	2443.8	880.8	688.5	812.5	874.6	1482.4	1687.1	1203.3	986.2	942.8	911.8
82.5°	924.2	539.6	471.4	558.2	558.2	1172.3	1377.0	924.2	744.3	961.4	980.0
85°	421.8	322.5	310.1	322.5	322.5	719.5	973.8	601.7	669.9	576.8	508.6
87.5°	167.5	155.1	142.7	136.5	111.6	124.1	334.9	161.3	303.9	80.6	74.4
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)