

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: P477024

Luminaire Tested: **IFLD-S-SA2E-750-U-T2R**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P477024  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2E-750-U-T2R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens  
Light Source: (32) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

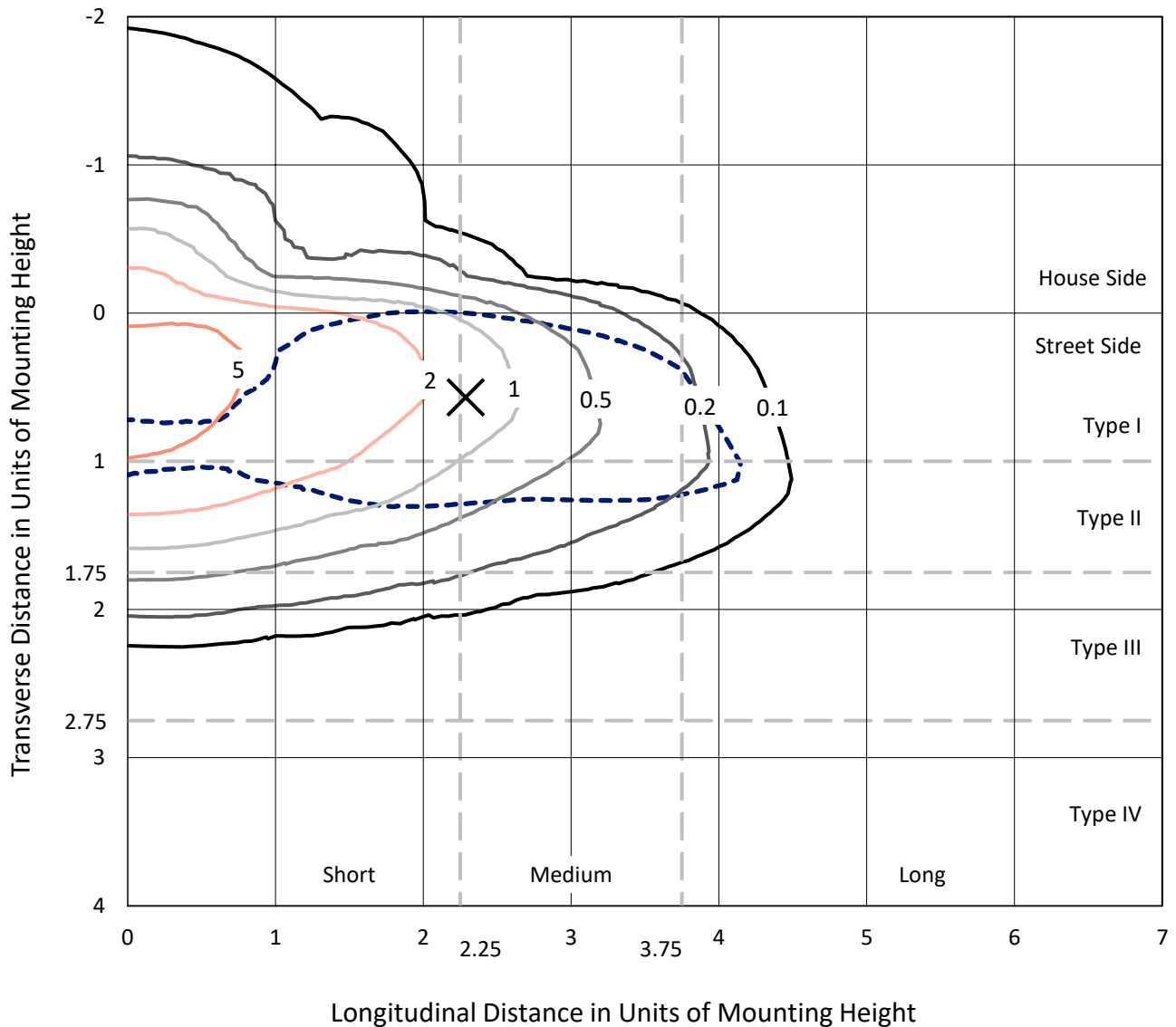
Lumens per Lamp: N/A  
Luminaire Lumens: 18617.9 lumens  
Efficiency: N/A  
Efficacy: 119.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2

Input Watts (W): 156.2  
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

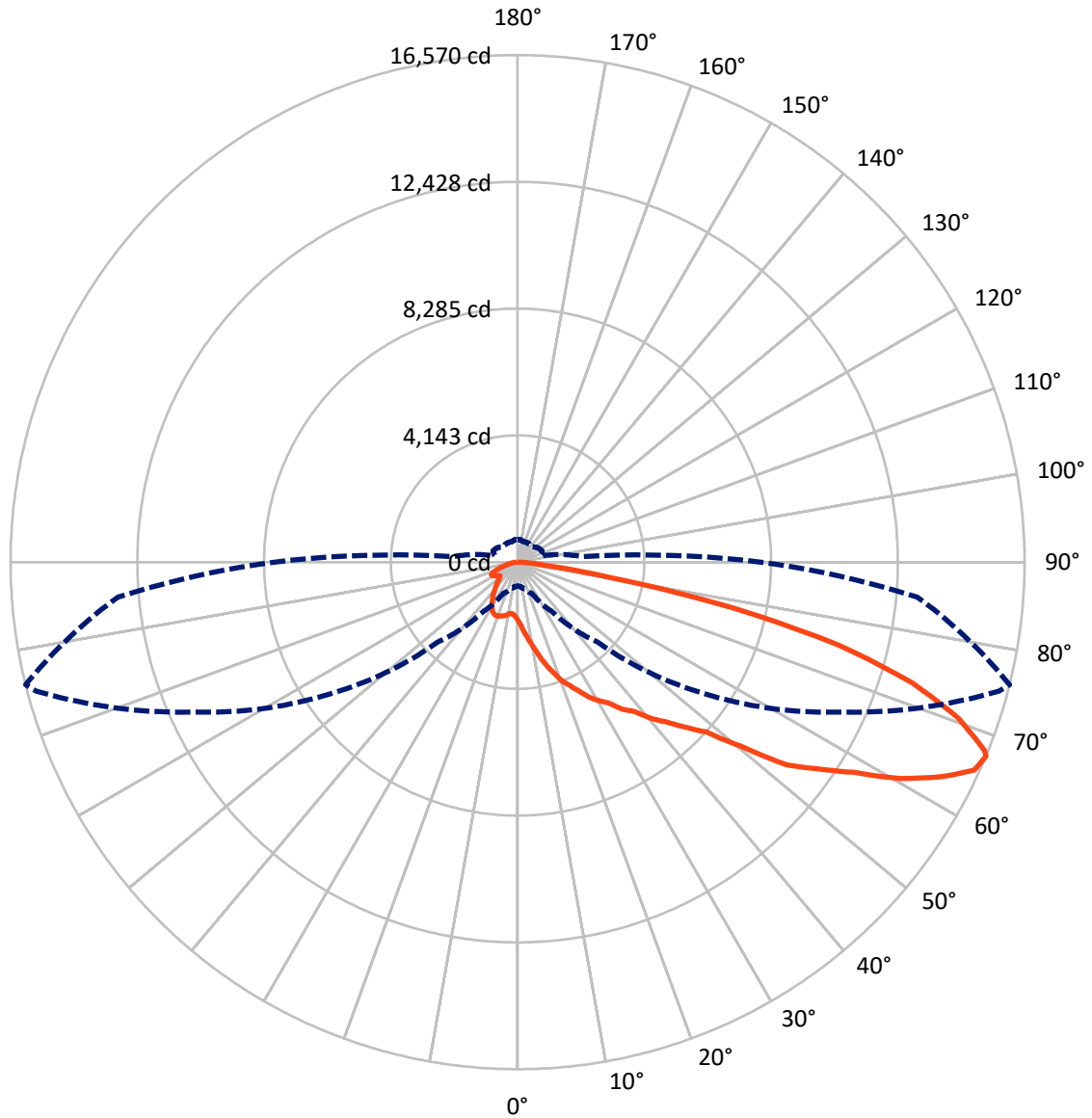
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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	2648.6	0.0	2648.6
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	15969.3	0.0	15969.3
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	18617.9	0.0	18617.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	220.7	1.2
10°-20°	827.7	4.4
20°-30°	1538.9	8.3
30°-40°	2439.4	13.1
40°-50°	3374.0	18.1
50°-60°	4150.2	22.3
60°-70°	3861.9	20.7
70°-80°	1937.9	10.4
80°-90°	267.2	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°	18617.9	100.0
0°-180°	18617.9	100.0

**Coefficient of Utilization**



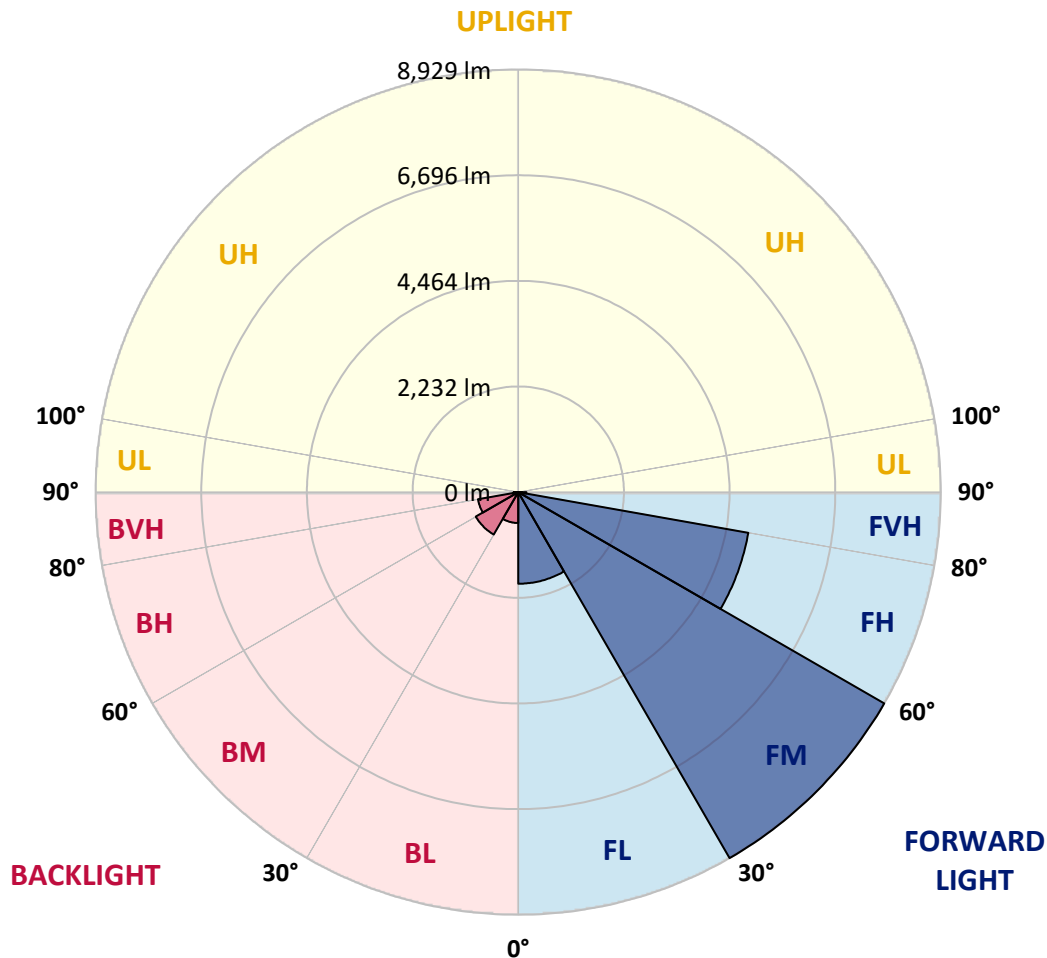
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1935.0	10.4			
FM (30°-60°)	8928.5	48.0			
FH (60°-80°)	4935.5	26.5			G2/5000
FVH (80°-90°)	170.2	0.9			G2/225
BL (0°-30°)	652.3	3.5	B2/1000		
BM (30°-60°)	1035.0	5.6	B2/2500		
BH (60°-80°)	864.4	4.6	B2/1000		G2/1000
BVH (80°-90°)	97.0	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°	1905.3	1905.3	1905.3	1905.3	1905.3	1905.3	1905.3	1905.3	1905.3	1905.3	1905.3
2.5°	2643.6	2611.8	2579.9	2512.1	2488.7	2425.1	2308.4	2179.0	2072.9	2058.0	1983.8
5°	3280.1	3233.4	3222.8	3184.6	3063.7	2940.6	2749.7	2541.8	2282.9	2302.0	2047.4
7.5°	3757.5	3729.9	3672.6	3636.5	3564.4	3401.0	3203.7	2927.9	2599.0	2535.4	2189.6
10°	4118.2	4080.0	4077.8	4046.0	4007.8	3840.2	3689.6	3318.3	2896.1	2809.1	2363.5
12.5°	4300.6	4294.3	4406.7	4406.7	4391.9	4321.8	4063.0	3723.5	3178.3	3148.6	2565.1
15°	4497.9	4444.9	4542.5	4616.7	4654.9	4691.0	4476.7	4118.2	3538.9	3481.7	2781.5
17.5°	4497.9	4493.7	4591.3	4714.3	4913.8	4960.5	4843.8	4481.0	3838.1	3795.7	3019.1
20°	4421.6	4483.1	4551.0	4716.5	4932.9	5121.7	5155.7	4852.3	4169.1	4135.1	3288.6
22.5°	4778.0	4718.6	4788.6	4852.3	5019.9	5306.3	5399.6	5179.0	4517.0	4387.6	3532.6
25°	5376.3	5336.0	5285.1	5191.7	5261.7	5386.9	5529.1	5420.9	4814.1	4669.8	3768.1
27.5°	5959.8	5961.9	5851.6	5647.9	5497.2	5522.7	5690.3	5633.0	5064.4	5000.8	3929.3
30°	6789.3	6738.4	6615.4	6339.5	6044.6	5802.8	5775.2	5830.3	5382.7	5259.6	4160.6
32.5°	7411.0	7421.6	7247.6	6850.9	6447.7	6250.4	6008.6	6031.9	5584.2	5493.0	4345.2
35°	7913.8	7901.1	7778.0	7449.2	6971.8	6734.2	6407.4	6273.8	6053.1	5908.8	4627.4
37.5°	8457.0	8353.0	8153.6	7782.3	7476.8	7147.9	6829.6	6528.4	6365.0	6191.0	4869.2
40°	8675.5	8675.5	8408.2	8238.4	7875.6	7627.4	7421.6	6863.6	6744.8	6710.8	5179.0
42.5°	8520.6	8616.1	8505.8	8312.7	8164.2	7850.2	7795.0	7211.5	7213.7	7145.8	5550.3
45°	8505.8	8374.2	8283.0	8331.8	8261.8	8244.8	8384.8	7693.2	7705.9	7697.4	6048.9
47.5°	8079.3	8019.9	8155.7	8236.3	8293.6	8556.7	8959.8	8268.1	8359.4	8295.7	6623.8
50°	7655.0	7644.4	7729.2	8022.0	8270.3	8703.1	9507.2	9155.0	9454.1	9449.9	7665.6
52.5°	6492.3	6604.7	6937.9	7557.4	8170.5	8902.5	9920.9	10288.0	10858.7	11013.6	8529.1
55°	5380.5	5321.1	5813.4	6713.0	7735.6	8981.0	10383.4	10969.0	11809.2	11921.6	9416.0
57.5°	4186.0	4296.4	4684.6	5548.2	6836.0	8592.8	10722.9	11641.6	12882.8	12969.7	10445.0
60°	3123.1	3137.9	3564.4	4260.3	5639.4	7716.5	10833.2	12331.1	14113.3	14361.6	11522.8
62.5°	1964.7	2053.8	2378.4	3063.7	4245.5	6490.2	10338.9	12749.1	15403.3	15469.1	12609.1
65°	1058.7	1116.0	1360.0	1790.7	2966.1	4909.5	9027.7	12498.7	16010.1	16400.5	13092.8
67°	782.9	793.5	906.0	1143.6	1983.8	3695.9	7527.7	11592.8	16285.9	16570.2	13111.9
67.5°	734.1	748.9	838.1	1026.9	1758.9	3403.2	7135.2	11270.3	16162.9	16468.4	12963.4
70°	628.0	632.3	653.5	706.5	986.6	2047.4	4858.6	9235.6	14981.1	15273.9	11921.6
72.5°	558.0	562.2	570.7	581.3	668.3	1183.9	2955.5	7107.6	13020.7	13487.4	10285.8
75°	490.1	505.0	509.2	500.7	568.6	770.2	1572.2	5223.5	10621.1	10848.1	7998.7
77.5°	415.8	422.2	430.7	439.2	507.1	575.0	755.3	3526.2	7290.0	7152.1	4326.1
80°	350.1	352.2	358.6	364.9	439.2	439.2	428.6	1905.3	3184.6	3044.6	1461.8
82.5°	250.4	265.2	280.1	297.0	364.9	294.9	280.1	848.7	1007.8	959.0	494.3
85°	97.6	118.8	184.6	203.7	231.3	159.1	186.7	367.0	420.1	415.8	184.6
87.5°	17.0	19.1	50.9	78.5	84.9	55.2	89.1	131.5	157.0	169.7	67.9
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°	1905.3	1905.3	1905.3	1905.3	1905.3	1905.3	1905.3	1905.3	1905.3	1905.3	1905.3
2.5°	1922.2	1856.5	1778.0	1699.5	1648.5	1567.9	1561.5	1512.7	1506.4	1489.4	1497.9
5°	1937.1	1858.6	1699.5	1574.3	1517.0	1470.3	1480.9	1459.7	1453.3	1442.7	1425.8
7.5°	2053.8	1898.9	1661.3	1553.1	1510.6	1489.4	1489.4	1464.0	1444.9	1457.6	1470.3
10°	2130.2	1918.0	1691.0	1582.8	1548.8	1502.1	1519.1	1487.3	1497.9	1472.4	1472.4
12.5°	2253.2	2026.2	1752.5	1627.3	1572.2	1529.7	1546.7	1510.6	1502.1	1504.3	1497.9
15°	2418.7	2098.3	1780.1	1652.8	1614.6	1561.5	1548.8	1517.0	1485.2	1474.6	1487.3
17.5°	2573.6	2187.4	1799.2	1667.6	1606.1	1546.7	1531.8	1491.5	1480.9	1449.1	1423.6
20°	2758.2	2293.5	1824.6	1680.4	1574.3	1514.9	1476.7	1436.4	1400.3	1381.2	1389.7
22.5°	2881.2	2348.7	1837.4	1654.9	1527.6	1472.4	1391.8	1364.2	1313.3	1292.1	1275.1
25°	3082.8	2416.6	1805.5	1584.9	1444.9	1355.7	1283.6	1245.4	1209.4	1181.8	1173.3
27.5°	3133.7	2467.5	1731.3	1466.1	1313.3	1220.0	1158.4	1111.8	1088.4	1046.0	1037.5
30°	3282.2	2416.6	1621.0	1321.8	1188.1	1092.7	1031.1	997.2	942.0	931.4	908.1
32.5°	3377.7	2431.4	1480.9	1181.8	1043.9	959.0	918.7	884.7	869.9	819.0	806.2
35°	3536.8	2380.5	1338.8	1052.3	925.0	859.3	825.3	814.7	765.9	742.6	721.4
37.5°	3638.7	2350.8	1196.6	906.0	795.6	768.0	778.7	734.1	674.7	630.1	615.3
40°	3816.9	2340.2	1035.4	785.0	706.5	700.2	734.1	649.2	541.0	502.8	481.6
42.5°	4073.6	2268.1	910.2	676.8	636.5	664.1	670.4	541.0	479.5	447.7	432.8
45°	4319.7	2282.9	787.1	560.1	553.8	594.1	579.2	458.3	422.2	398.9	411.6
47.5°	4792.8	2357.2	666.2	466.8	498.6	536.8	449.8	409.5	375.5	358.6	360.7
50°	5524.8	2429.3	560.1	426.5	471.0	485.9	386.1	371.3	369.2	335.2	333.1
52.5°	5964.0	2401.7	541.0	477.4	505.0	485.9	420.1	409.5	392.5	377.7	360.7
55°	6662.0	2482.4	581.3	558.0	572.9	466.8	471.0	466.8	454.0	415.8	426.5
57.5°	7217.9	2535.4	634.4	623.8	615.3	485.9	492.2	494.3	485.9	468.9	483.7
60°	7981.7	2641.5	689.5	691.7	693.8	528.3	538.9	551.6	549.5	543.1	547.4
62.5°	8450.6	2592.7	751.1	785.0	774.4	615.3	613.2	621.6	621.6	632.3	638.6
65°	8380.6	2412.3	782.9	867.8	812.6	678.9	678.9	683.2	685.3	706.5	708.6
67°	7960.5	2089.8	765.9	880.5	812.6	704.4	704.4	708.6	693.8	748.9	732.0
67.5°	7765.3	1994.4	751.1	869.9	806.2	702.3	702.3	704.4	691.7	744.7	727.7
70°	6753.3	1480.9	647.1	770.2	746.8	683.2	683.2	670.4	659.8	729.9	715.0
72.5°	5764.6	1075.7	519.8	655.6	674.7	657.7	662.0	630.1	600.4	649.2	636.5
75°	4415.2	791.4	405.2	505.0	570.7	615.3	642.9	562.2	524.1	536.8	513.4
77.5°	2463.3	515.6	320.4	373.4	434.9	572.9	617.4	507.1	428.6	413.7	413.7
80°	835.9	301.3	235.5	277.9	299.2	507.1	577.1	411.6	337.3	322.5	311.9
82.5°	316.1	184.6	161.2	191.0	191.0	401.0	471.0	316.1	254.6	328.9	335.2
85°	144.3	110.3	106.1	110.3	110.3	246.1	333.1	205.8	229.1	197.3	174.0
87.5°	57.3	53.0	48.8	46.7	38.2	42.4	114.6	55.2	104.0	27.6	25.5
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)