

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: P476989

Luminaire Tested: **IFLD-S-SA3D-740-U-T2R**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476989  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3D-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**

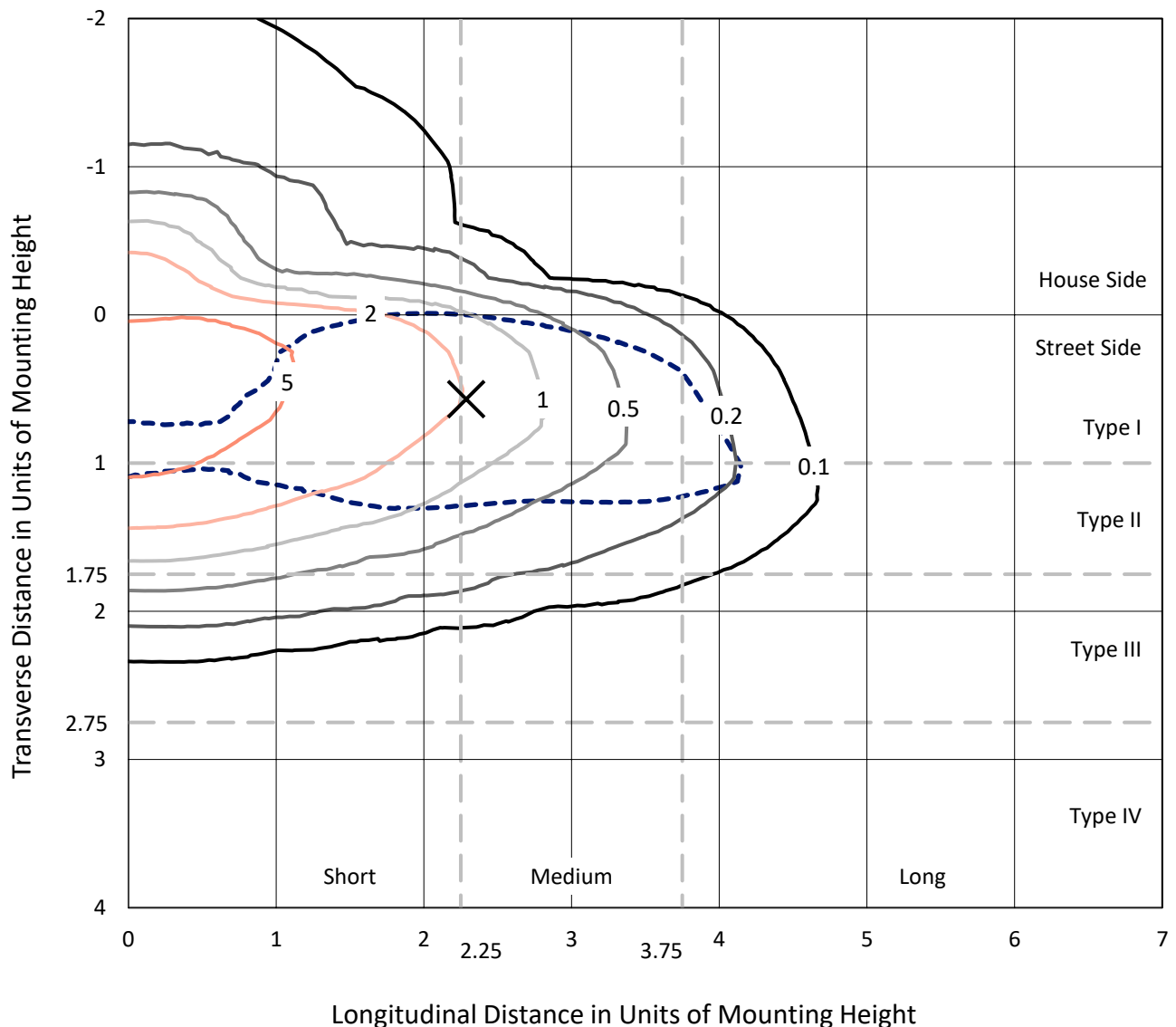
Lumens per Lamp: N/A  
Luminaire Lumens: 23438 lumens  
Efficiency: N/A  
Efficacy: 127.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3

Input Watts (W): 184.1  
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

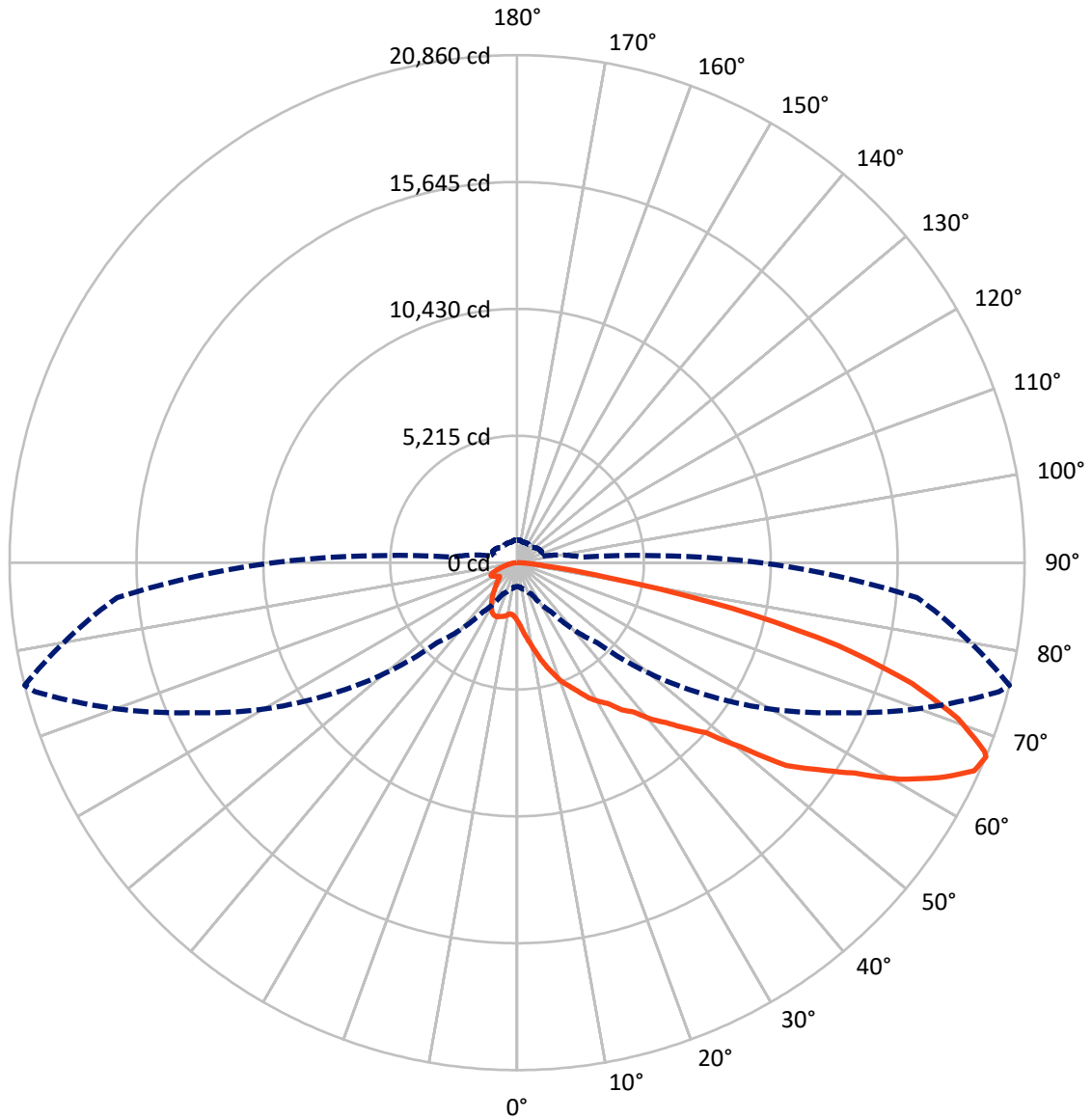
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 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	3334.3	0.0	3334.3
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	20103.7	0.0	20103.7
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	23438.0	0.0	23438.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	277.8	1.2
10°-20°	1042.0	4.4
20°-30°	1937.3	8.3
30°-40°	3071.0	13.1
40°-50°	4247.5	18.1
50°-60°	5224.6	22.3
60°-70°	4861.8	20.7
70°-80°	2439.6	10.4
80°-90°	336.4	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°	23438.0	100.0
0°-180°	23438.0	100.0

**Coefficient of Utilization**



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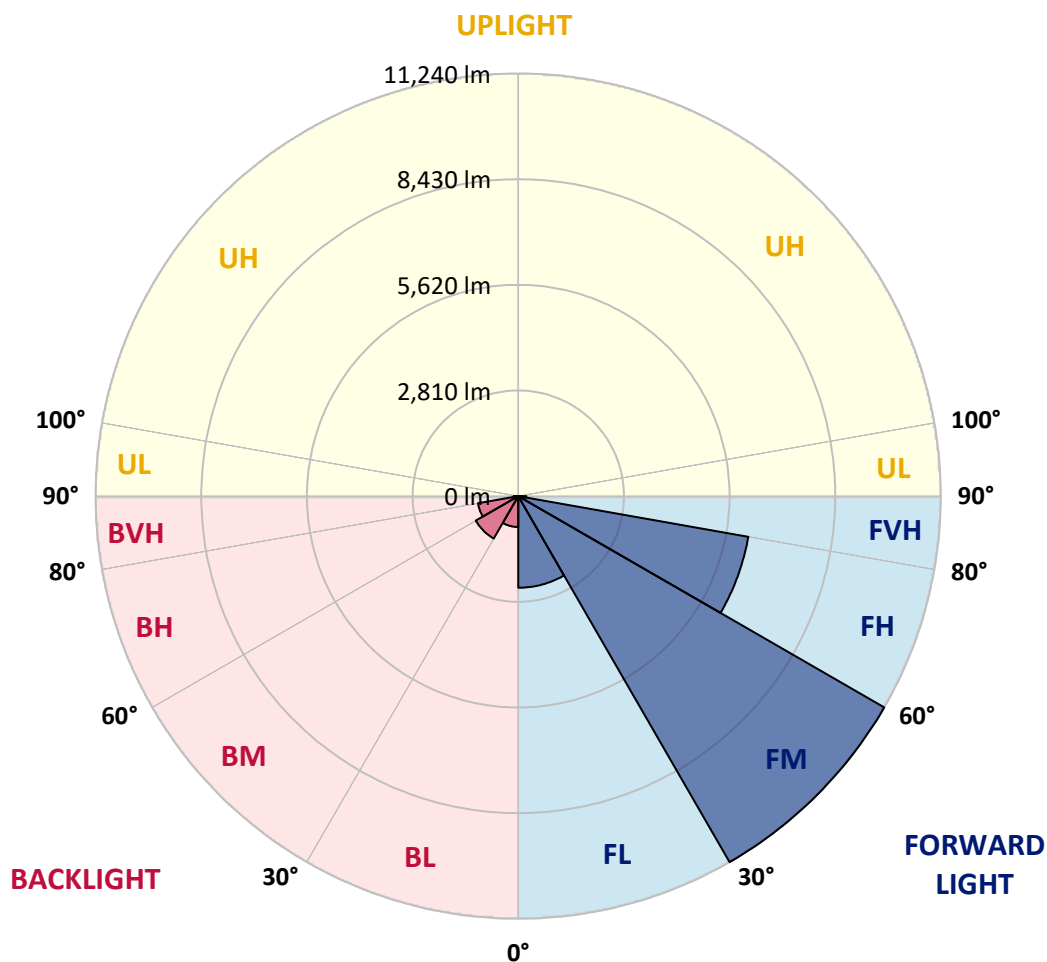
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2436.0	10.4			
FM (30°-60°)	11240.1	48.0			
FH (60°-80°)	6213.2	26.5			G3/7500
FVH (80°-90°)	214.3	0.9			G2/225
BL (0°-30°)	821.1	3.5	B2/1000		
BM (30°-60°)	1303.0	5.6	B2/2500		
BH (60°-80°)	1088.2	4.6	B3/2500		G3/2500
BVH (80°-90°)	122.1	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°	2398.5	2398.5	2398.5	2398.5	2398.5	2398.5	2398.5	2398.5	2398.5	2398.5	2398.5
2.5°	3328.0	3288.0	3247.9	3162.4	3133.0	3052.9	2906.0	2743.1	2609.5	2590.8	2497.3
5°	4129.3	4070.5	4057.2	4009.1	3856.9	3701.9	3461.6	3199.8	2874.0	2898.0	2577.5
7.5°	4730.3	4695.5	4623.4	4578.0	4487.2	4281.5	4033.1	3685.9	3271.9	3191.8	2756.4
10°	5184.3	5136.3	5133.6	5093.5	5045.4	4834.4	4644.8	4177.4	3645.9	3536.3	2975.4
12.5°	5414.0	5406.0	5547.6	5547.6	5528.9	5440.7	5114.9	4687.5	4001.1	3963.7	3229.2
15°	5662.4	5595.7	5718.5	5812.0	5860.1	5905.5	5635.7	5184.3	4455.2	4383.0	3501.6
17.5°	5662.4	5657.1	5780.0	5934.9	6185.9	6244.7	6097.8	5641.1	4831.8	4778.3	3800.8
20°	5566.3	5643.7	5729.2	5937.5	6210.0	6447.7	6490.4	6108.5	5248.4	5205.7	4140.0
22.5°	6015.0	5940.2	6028.4	6108.5	6319.5	6680.1	6797.6	6519.8	5686.5	5523.5	4447.1
25°	6768.2	6717.5	6653.4	6535.8	6624.0	6781.6	6960.5	6824.3	6060.4	5878.8	4743.6
27.5°	7502.7	7505.4	7366.5	7110.1	6920.5	6952.5	7163.5	7091.4	6375.6	6295.4	4946.6
30°	8547.1	8483.0	8328.0	7980.8	7609.6	7305.1	7270.3	7339.8	6776.2	6621.3	5237.8
32.5°	9329.7	9343.0	9124.0	8624.5	8117.0	7868.6	7564.2	7593.5	7030.0	6915.1	5470.1
35°	9962.7	9946.7	9791.7	9377.7	8776.8	8477.6	8066.3	7898.0	7620.2	7438.6	5825.4
37.5°	10646.4	10515.6	10264.5	9797.1	9412.5	8998.5	8597.8	8218.5	8012.9	7793.9	6129.9
40°	10921.6	10921.6	10585.0	10371.3	9914.6	9602.1	9343.0	8640.6	8491.0	8448.2	6519.8
42.5°	10726.6	10846.8	10707.9	10464.8	10277.8	9882.5	9813.1	9078.6	9081.3	8995.8	6987.2
45°	10707.9	10542.3	10427.4	10488.9	10400.7	10379.3	10555.6	9684.9	9700.9	9690.2	7614.9
47.5°	10171.0	10096.2	10267.2	10368.7	10440.8	10772.0	11279.5	10408.7	10523.6	10443.4	8338.7
50°	9636.8	9623.5	9730.3	10098.9	10411.4	10956.3	11968.6	11525.2	11901.8	11896.5	9650.2
52.5°	8173.1	8314.7	8734.0	9514.0	10285.9	11207.3	12489.4	12951.5	13670.0	13864.9	10737.3
55°	6773.6	6698.8	7318.4	8450.9	9738.3	11306.2	13071.7	13808.9	14866.6	15008.1	11853.7
57.5°	5269.8	5408.7	5897.5	6984.6	8605.8	10817.4	13499.0	14655.6	16218.1	16327.6	13149.1
60°	3931.7	3950.3	4487.2	5363.3	7099.4	9714.3	13637.9	15523.6	17767.2	18079.7	14506.0
62.5°	2473.3	2585.5	2994.1	3856.9	5344.6	8170.5	13015.6	16049.8	19391.2	19474.0	15873.5
65°	1332.8	1404.9	1712.1	2254.3	3734.0	6180.6	11364.9	15734.6	20155.1	20646.5	16482.5
67°	985.6	998.9	1140.5	1439.6	2497.3	4652.8	9476.6	14594.1	20502.3	20860.2	16506.5
67.5°	924.2	942.8	1055.0	1292.7	2214.2	4284.2	8982.4	14188.1	20347.4	20732.0	16319.6
70°	790.6	795.9	822.7	889.4	1242.0	2577.5	6116.5	11626.7	18859.6	19228.2	15008.1
72.5°	702.5	707.8	718.5	731.8	841.4	1490.4	3720.6	8947.7	16391.7	16979.3	12948.8
75°	617.0	635.7	641.0	630.3	715.8	969.6	1979.2	6575.9	13370.8	13656.6	10069.5
77.5°	523.5	531.5	542.2	552.9	638.4	723.8	950.9	4439.1	9177.4	9003.8	5446.1
80°	440.7	443.4	451.4	459.4	552.9	552.9	539.5	2398.5	4009.1	3832.8	1840.3
82.5°	315.2	333.9	352.6	373.9	459.4	371.3	352.6	1068.4	1268.7	1207.3	622.3
85°	122.9	149.6	232.4	256.4	291.1	200.3	235.0	462.1	528.8	523.5	232.4
87.5°	21.4	24.0	64.1	98.8	106.8	69.4	112.2	165.6	197.7	213.7	85.5
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°	2398.5	2398.5	2398.5	2398.5	2398.5	2398.5	2398.5	2398.5	2398.5	2398.5	2398.5
2.5°	2419.9	2337.1	2238.3	2139.4	2075.3	1973.8	1965.8	1904.4	1896.4	1875.0	1885.7
5°	2438.6	2339.8	2139.4	1981.9	1909.7	1851.0	1864.3	1837.6	1829.6	1816.3	1794.9
7.5°	2585.5	2390.5	2091.4	1955.1	1901.7	1875.0	1875.0	1843.0	1818.9	1834.9	1851.0
10°	2681.6	2414.5	2128.8	1992.5	1949.8	1891.0	1912.4	1872.3	1885.7	1853.6	1853.6
12.5°	2836.6	2550.8	2206.2	2048.6	1979.2	1925.8	1947.1	1901.7	1891.0	1893.7	1885.7
15°	3044.9	2641.6	2240.9	2080.7	2032.6	1965.8	1949.8	1909.7	1869.7	1856.3	1872.3
17.5°	3239.9	2753.8	2265.0	2099.4	2021.9	1947.1	1928.4	1877.7	1864.3	1824.3	1792.2
20°	3472.2	2887.3	2297.0	2115.4	1981.9	1907.1	1859.0	1808.2	1762.8	1738.8	1749.5
22.5°	3627.2	2956.8	2313.1	2083.3	1923.1	1853.6	1752.1	1717.4	1653.3	1626.6	1605.2
25°	3880.9	3042.2	2273.0	1995.2	1818.9	1706.7	1615.9	1567.9	1522.4	1487.7	1477.0
27.5°	3945.0	3106.3	2179.5	1845.6	1653.3	1535.8	1458.3	1399.6	1370.2	1316.8	1306.1
30°	4132.0	3042.2	2040.6	1664.0	1495.7	1375.5	1298.1	1255.4	1185.9	1172.6	1143.2
32.5°	4252.2	3060.9	1864.3	1487.7	1314.1	1207.3	1156.5	1113.8	1095.1	1031.0	1015.0
35°	4452.5	2996.8	1685.4	1324.8	1164.5	1081.7	1039.0	1025.6	964.2	934.8	908.1
37.5°	4580.7	2959.4	1506.4	1140.5	1001.6	966.9	980.2	924.2	849.4	793.3	774.6
40°	4805.1	2946.1	1303.4	988.3	889.4	881.4	924.2	817.3	681.1	633.0	606.3
42.5°	5128.2	2855.3	1145.8	852.0	801.3	836.0	844.0	681.1	603.6	563.6	544.9
45°	5438.1	2874.0	990.9	705.1	697.1	747.9	729.2	576.9	531.5	502.1	518.2
47.5°	6033.7	2967.4	838.7	587.6	627.7	675.8	566.2	515.5	472.8	451.4	454.1
50°	6955.2	3058.2	705.1	536.9	593.0	611.6	486.1	467.4	464.7	422.0	419.3
52.5°	7508.1	3023.5	681.1	601.0	635.7	611.6	528.8	515.5	494.1	475.4	454.1
55°	8386.8	3125.0	731.8	702.5	721.2	587.6	593.0	587.6	571.6	523.5	536.9
57.5°	9086.6	3191.8	798.6	785.3	774.6	611.6	619.7	622.3	611.6	590.3	609.0
60°	10048.1	3325.3	868.1	870.7	873.4	665.1	678.4	694.4	691.8	683.8	689.1
62.5°	10638.4	3263.9	945.5	988.3	974.9	774.6	771.9	782.6	782.6	795.9	804.0
65°	10550.3	3036.9	985.6	1092.4	1023.0	854.7	854.7	860.0	862.7	889.4	892.1
67°	10021.4	2630.9	964.2	1108.4	1023.0	886.8	886.8	892.1	873.4	942.8	921.5
67.5°	9775.7	2510.7	945.5	1095.1	1015.0	884.1	884.1	886.8	870.7	937.5	916.1
70°	8501.7	1864.3	814.6	969.6	940.2	860.0	860.0	844.0	830.7	918.8	900.1
72.5°	7257.0	1354.2	654.4	825.3	849.4	828.0	833.3	793.3	755.9	817.3	801.3
75°	5558.3	996.3	510.2	635.7	718.5	774.6	809.3	707.8	659.7	675.8	646.4
77.5°	3101.0	649.0	403.3	470.1	547.5	721.2	777.2	638.4	539.5	520.8	520.8
80°	1052.4	379.3	296.5	349.9	376.6	638.4	726.5	518.2	424.7	406.0	392.6
82.5°	398.0	232.4	203.0	240.4	240.4	504.8	593.0	398.0	320.5	414.0	422.0
85°	181.6	138.9	133.5	138.9	138.9	309.8	419.3	259.1	288.5	248.4	219.0
87.5°	72.1	66.8	61.4	58.8	48.1	53.4	144.2	69.4	130.9	34.7	32.1
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)