

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: P476853

Luminaire Tested: **IFLD-M-SA4D-722-U-T2R**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476853  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4D-722-U-T2R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens  
Light Source: (64) 2200K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

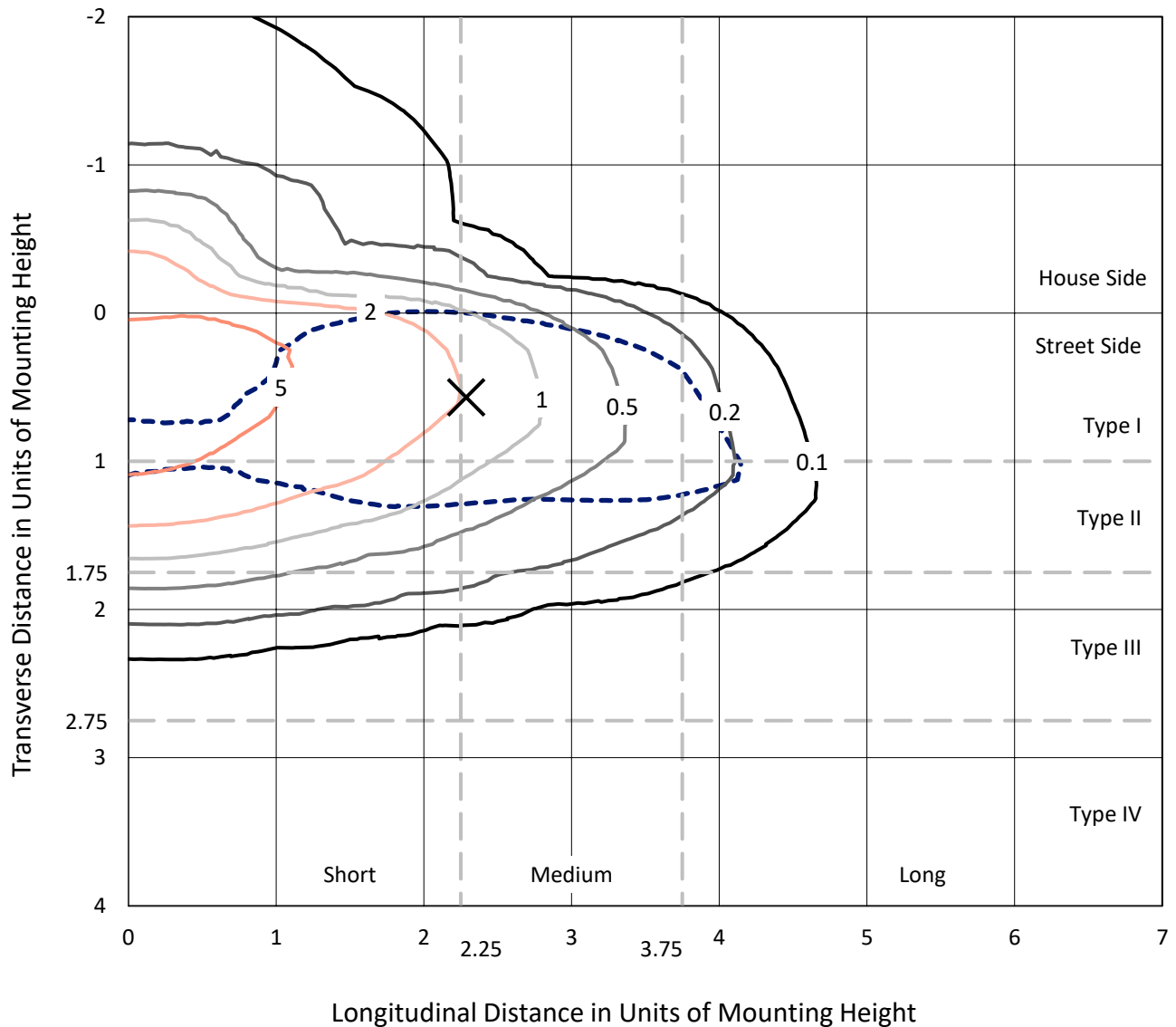
Lumens per Lamp: N/A  
Luminaire Lumens: 23173.3 lumens  
Efficiency: N/A  
Efficacy: 92.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3

Input Watts (W): 249.7  
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

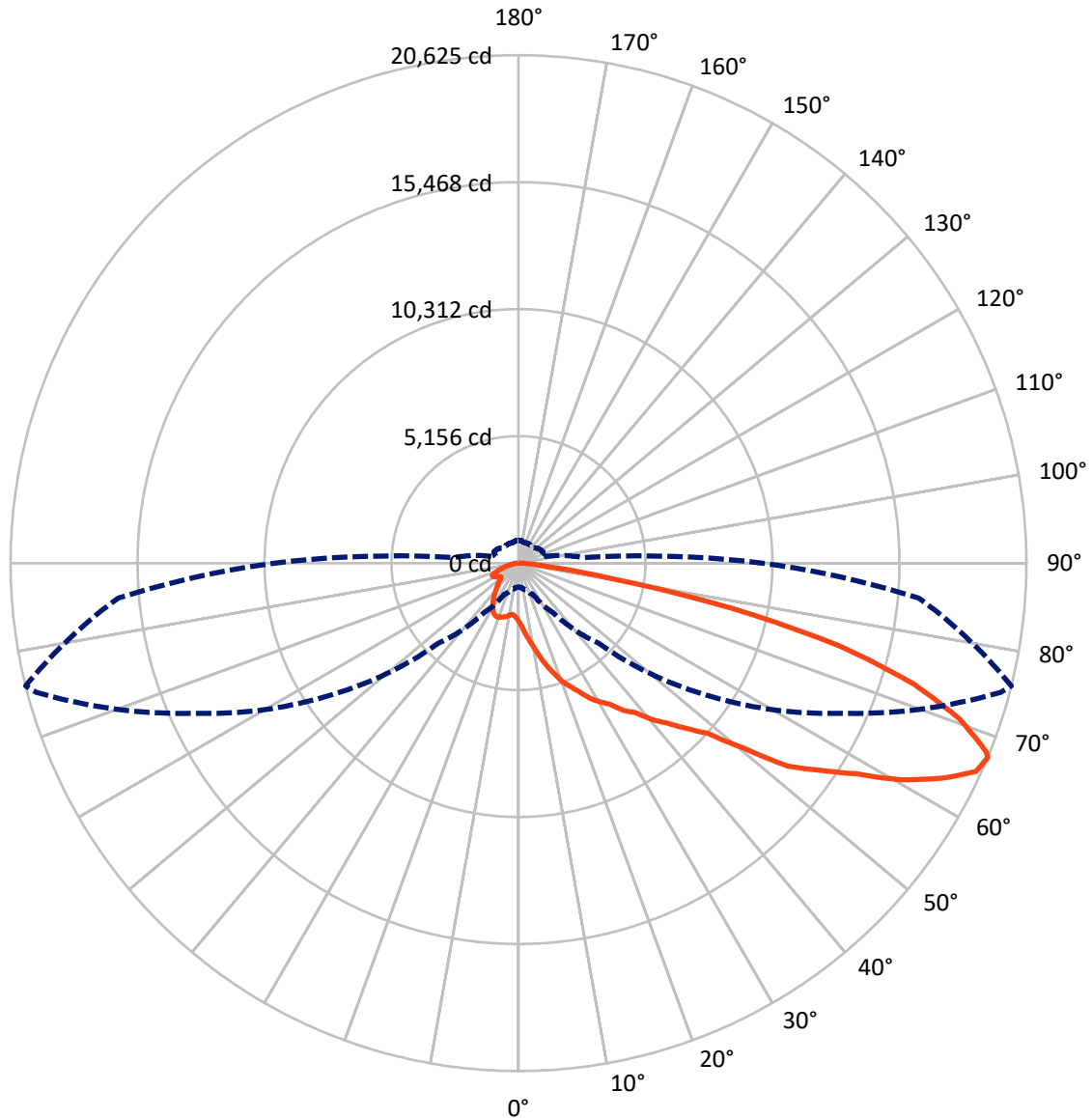
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc  
 Type II - Medium - N/A

REPORT NUMBER: P476853  
CATALOG NUMBER: IFLD-M-SA4D-722-U-T2R

### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

REPORT NUMBER: P476853

CATALOG NUMBER: IFLD-M-SA4D-722-U-T2R

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3296.7	0.0	3296.7
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	19876.6	0.0	19876.6
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	23173.3	0.0	23173.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	274.7	1.2
10°-20°	1030.3	4.4
20°-30°	1915.4	8.3
30°-40°	3036.3	13.1
40°-50°	4199.5	18.1
50°-60°	5165.6	22.3
60°-70°	4806.9	20.7
70°-80°	2412.1	10.4
80°-90°	332.6	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°	23173.3	100.0
0°-180°	23173.3	100.0

**Coefficient of Utilization**



REPORT NUMBER: P476853

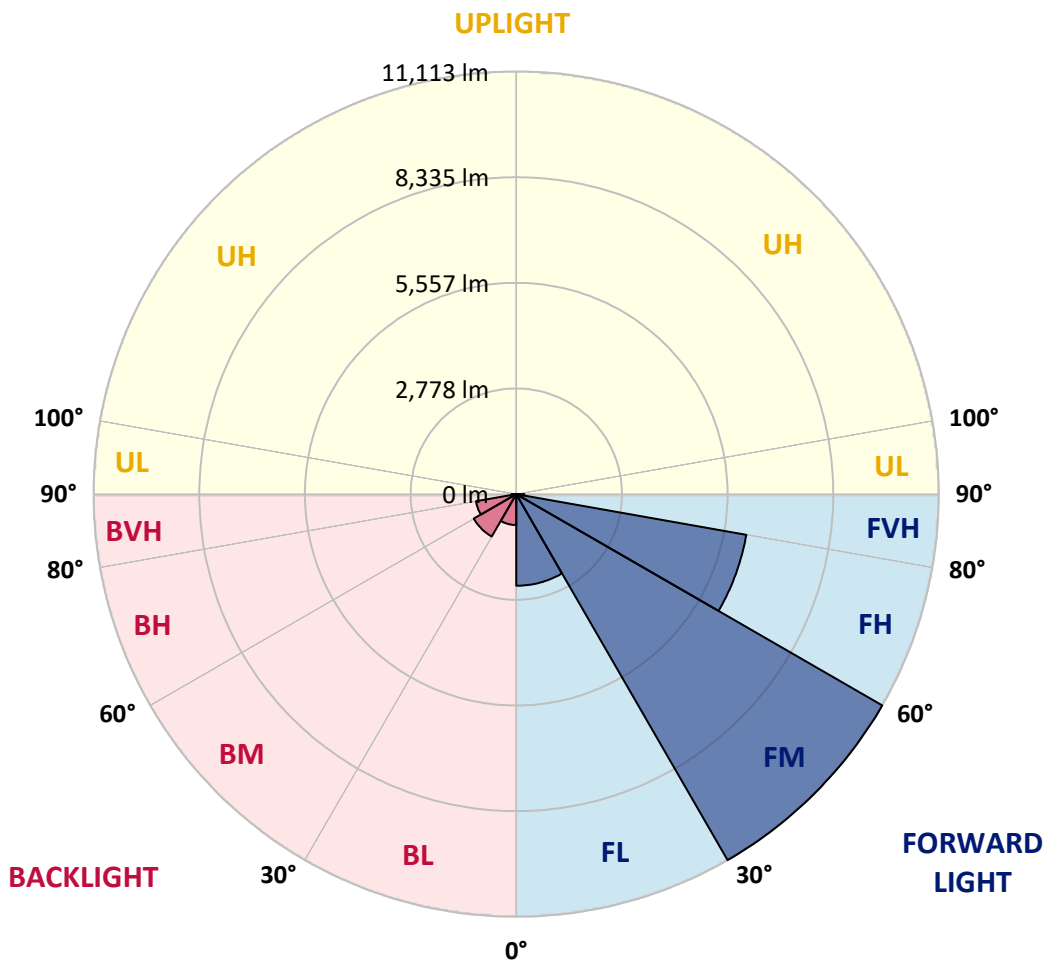
CATALOG NUMBER: IFLD-M-SA4D-722-U-T2R

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2408.5	10.4			
FM (30°-60°)	11113.1	48.0			
FH (60°-80°)	6143.0	26.5			G3/7500
FVH (80°-90°)	211.9	0.9			G2/225
BL (0°-30°)	811.8	3.5	B2/1000		
BM (30°-60°)	1288.3	5.6	B2/2500		
BH (60°-80°)	1075.9	4.6	B3/2500		G3/2500
BVH (80°-90°)	120.7	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





REPORT NUMBER: P476853

CATALOG NUMBER: IFLD-M-SA4D-722-U-T2R

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2371.4	2371.4	2371.4	2371.4	2371.4	2371.4	2371.4	2371.4	2371.4	2371.4	2371.4
2.5°	3290.4	3250.8	3211.2	3126.7	3097.6	3018.4	2873.2	2712.1	2580.1	2561.6	2469.1
5°	4082.7	4024.6	4011.4	3963.8	3813.3	3660.1	3422.5	3163.7	2841.5	2865.3	2548.4
7.5°	4676.8	4642.5	4571.2	4526.3	4436.5	4233.2	3987.6	3644.3	3235.0	3155.7	2725.3
10°	5125.8	5078.2	5075.6	5036.0	4988.4	4779.8	4592.3	4130.2	3604.7	3496.4	2941.8
12.5°	5352.9	5345.0	5484.9	5484.9	5466.4	5379.3	5057.1	4634.6	3955.9	3918.9	3192.7
15°	5598.5	5532.5	5653.9	5746.4	5793.9	5838.8	5572.1	5125.8	4404.8	4333.5	3462.1
17.5°	5598.5	5593.2	5714.7	5867.8	6116.1	6174.2	6028.9	5577.3	4777.2	4724.4	3757.8
20°	5503.4	5580.0	5664.5	5870.5	6139.8	6374.9	6417.1	6039.5	5189.1	5146.9	4093.2
22.5°	5947.1	5873.1	5960.3	6039.5	6248.1	6604.6	6720.8	6446.2	5622.2	5461.2	4396.9
25°	6691.8	6641.6	6578.2	6462.0	6549.2	6705.0	6881.9	6747.2	5991.9	5812.4	4690.0
27.5°	7418.0	7420.6	7283.3	7029.8	6842.3	6874.0	7082.6	7011.3	6303.6	6224.3	4890.7
30°	8450.5	8387.1	8234.0	7890.7	7523.6	7222.6	7188.2	7256.9	6699.7	6546.5	5178.6
32.5°	9224.3	9237.5	9020.9	8527.1	8025.4	7779.8	7478.7	7507.8	6950.6	6837.0	5408.3
35°	9850.1	9834.3	9681.1	9271.8	8677.6	8381.9	7975.2	7808.8	7534.2	7354.6	5759.6
37.5°	10526.2	10396.8	10148.6	9686.4	9306.1	8896.8	8500.7	8125.7	7922.4	7705.8	6060.6
40°	10798.2	10798.2	10465.4	10254.2	9802.6	9493.6	9237.5	8543.0	8395.1	8352.8	6446.2
42.5°	10605.4	10724.2	10586.9	10346.6	10161.8	9770.9	9702.3	8976.0	8978.7	8894.2	6908.3
45°	10586.9	10423.2	10309.6	10370.4	10283.2	10262.1	10436.4	9575.5	9591.3	9580.8	7528.9
47.5°	10056.1	9982.2	10151.2	10251.5	10322.8	10650.3	11152.0	10291.2	10404.7	10325.5	8244.5
50°	9528.0	9514.8	9620.4	9984.8	10293.8	10832.5	11833.4	11395.0	11767.4	11762.1	9541.2
52.5°	8080.8	8220.8	8635.4	9406.5	10169.7	11080.7	12348.3	12805.2	13515.6	13708.3	10616.0
55°	6697.0	6623.1	7235.8	8355.5	9628.3	11178.5	12924.0	13652.9	14698.6	14838.6	11719.8
57.5°	5210.3	5347.6	5830.9	6905.7	8508.6	10695.2	13346.5	14490.0	16034.9	16143.1	13000.6
60°	3887.2	3905.7	4436.5	5302.7	7019.2	9604.5	13483.9	15348.3	17566.5	17875.5	14342.1
62.5°	2445.4	2556.3	2960.3	3813.3	5284.2	8078.2	12868.6	15868.5	19172.1	19254.0	15694.2
65°	1317.8	1389.1	1692.7	2228.8	3691.8	6110.8	11236.6	15556.9	19927.4	20413.3	16296.3
67°	974.5	987.7	1127.6	1423.4	2469.1	4600.3	9369.5	14429.3	20270.7	20624.6	16320.1
67.5°	913.7	932.2	1043.1	1278.1	2189.2	4235.8	8881.0	14027.9	20117.5	20497.8	16135.2
70°	781.7	787.0	813.4	879.4	1228.0	2548.4	6047.4	11495.4	18646.6	19011.0	14838.6
72.5°	694.5	699.8	710.4	723.6	831.8	1473.6	3678.6	8846.6	16206.5	16787.5	12802.5
75°	610.0	628.5	633.8	623.2	707.7	958.6	1956.8	6501.6	13219.8	13502.4	9955.8
77.5°	517.6	525.5	536.1	546.6	631.1	715.7	940.1	4389.0	9073.7	8902.1	5384.6
80°	435.7	438.4	446.3	454.2	546.6	546.6	533.4	2371.4	3963.8	3789.5	1819.5
82.5°	311.6	330.1	348.6	369.7	454.2	367.1	348.6	1056.3	1254.4	1193.6	615.3
85°	121.5	147.9	229.7	253.5	287.8	198.1	232.4	456.9	522.9	517.6	229.7
87.5°	21.1	23.8	63.4	97.7	105.6	68.7	110.9	163.7	195.4	211.3	84.5
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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 CATALOG NUMBER: IFLD-M-SA4D-722-U-T2R

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2371.4	2371.4	2371.4	2371.4	2371.4	2371.4	2371.4	2371.4	2371.4	2371.4	2371.4
2.5°	2392.6	2310.7	2213.0	2115.3	2051.9	1951.5	1943.6	1882.9	1875.0	1853.8	1864.4
5°	2411.0	2313.3	2115.3	1959.5	1888.2	1830.1	1843.3	1816.9	1808.9	1795.7	1774.6
7.5°	2556.3	2363.5	2067.7	1933.1	1880.2	1853.8	1853.8	1822.1	1798.4	1814.2	1830.1
10°	2651.4	2387.3	2104.7	1970.0	1927.8	1869.7	1890.8	1851.2	1864.4	1832.7	1832.7
12.5°	2804.5	2522.0	2181.3	2025.5	1956.8	1904.0	1925.1	1880.2	1869.7	1872.3	1864.4
15°	3010.5	2611.7	2215.6	2057.2	2009.6	1943.6	1927.8	1888.2	1848.6	1835.3	1851.2
17.5°	3203.3	2722.7	2239.4	2075.7	1999.1	1925.1	1906.6	1856.5	1843.3	1803.7	1772.0
20°	3433.0	2854.7	2271.1	2091.5	1959.5	1885.5	1838.0	1787.8	1742.9	1719.2	1729.7
22.5°	3586.2	2923.4	2286.9	2059.8	1901.4	1832.7	1732.4	1698.0	1634.6	1608.2	1587.1
25°	3837.1	3007.9	2247.3	1972.7	1798.4	1687.5	1597.7	1550.1	1505.2	1470.9	1460.4
27.5°	3900.4	3071.2	2154.9	1824.8	1634.6	1518.5	1441.9	1383.8	1354.7	1301.9	1291.3
30°	4085.3	3007.9	2017.6	1645.2	1478.8	1360.0	1283.4	1241.2	1172.5	1159.3	1130.3
32.5°	4204.1	3026.3	1843.3	1470.9	1299.3	1193.6	1143.5	1101.2	1082.7	1019.3	1003.5
35°	4402.2	2963.0	1666.3	1309.8	1151.4	1069.5	1027.3	1014.1	953.3	924.3	897.9
37.5°	4529.0	2926.0	1489.4	1127.6	990.3	956.0	969.2	913.7	839.8	784.3	765.8
40°	4750.8	2912.8	1288.7	977.1	879.4	871.5	913.7	808.1	673.4	625.9	599.5
42.5°	5070.3	2823.0	1132.9	842.4	792.2	826.6	834.5	673.4	596.8	557.2	538.7
45°	5376.6	2841.5	979.7	697.2	689.2	739.4	720.9	570.4	525.5	496.5	512.3
47.5°	5965.5	2933.9	829.2	581.0	620.6	668.1	559.8	509.7	467.4	446.3	448.9
50°	6876.6	3023.7	697.2	530.8	586.3	604.7	480.6	462.1	459.5	417.2	414.6
52.5°	7423.3	2989.4	673.4	594.2	628.5	604.7	522.9	509.7	488.5	470.1	448.9
55°	8292.1	3089.7	723.6	694.5	713.0	581.0	586.3	581.0	565.1	517.6	530.8
57.5°	8984.0	3155.7	789.6	776.4	765.8	604.7	612.7	615.3	604.7	583.6	602.1
60°	9934.6	3287.8	858.3	860.9	863.5	657.6	670.8	686.6	684.0	676.0	681.3
62.5°	10518.3	3227.0	934.8	977.1	963.9	765.8	763.2	773.8	773.8	787.0	794.9
65°	10431.1	3002.6	974.5	1080.1	1011.4	845.1	845.1	850.3	853.0	879.4	882.0
67°	9908.2	2601.2	953.3	1095.9	1011.4	876.7	876.7	882.0	863.5	932.2	911.1
67.5°	9665.3	2482.3	934.8	1082.7	1003.5	874.1	874.1	876.7	860.9	926.9	905.8
70°	8405.6	1843.3	805.4	958.6	929.6	850.3	850.3	834.5	821.3	908.4	889.9
72.5°	7175.0	1338.9	647.0	816.0	839.8	818.6	823.9	784.3	747.3	808.1	792.2
75°	5495.5	985.0	504.4	628.5	710.4	765.8	800.2	699.8	652.3	668.1	639.1
77.5°	3066.0	641.7	398.8	464.8	541.4	713.0	768.5	631.1	533.4	515.0	515.0
80°	1040.5	375.0	293.1	345.9	372.4	631.1	718.3	512.3	419.9	401.4	388.2
82.5°	393.5	229.7	200.7	237.7	237.7	499.1	586.3	393.5	316.9	409.3	417.2
85°	179.6	137.3	132.0	137.3	137.3	306.3	414.6	256.2	285.2	245.6	216.5
87.5°	71.3	66.0	60.7	58.1	47.5	52.8	142.6	68.7	129.4	34.3	31.7
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)