

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: P476931

Luminaire Tested: **IFLD-M-SA4D-730-U-T2R**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476931  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4D-730-U-T2R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens  
Light Source: (64) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

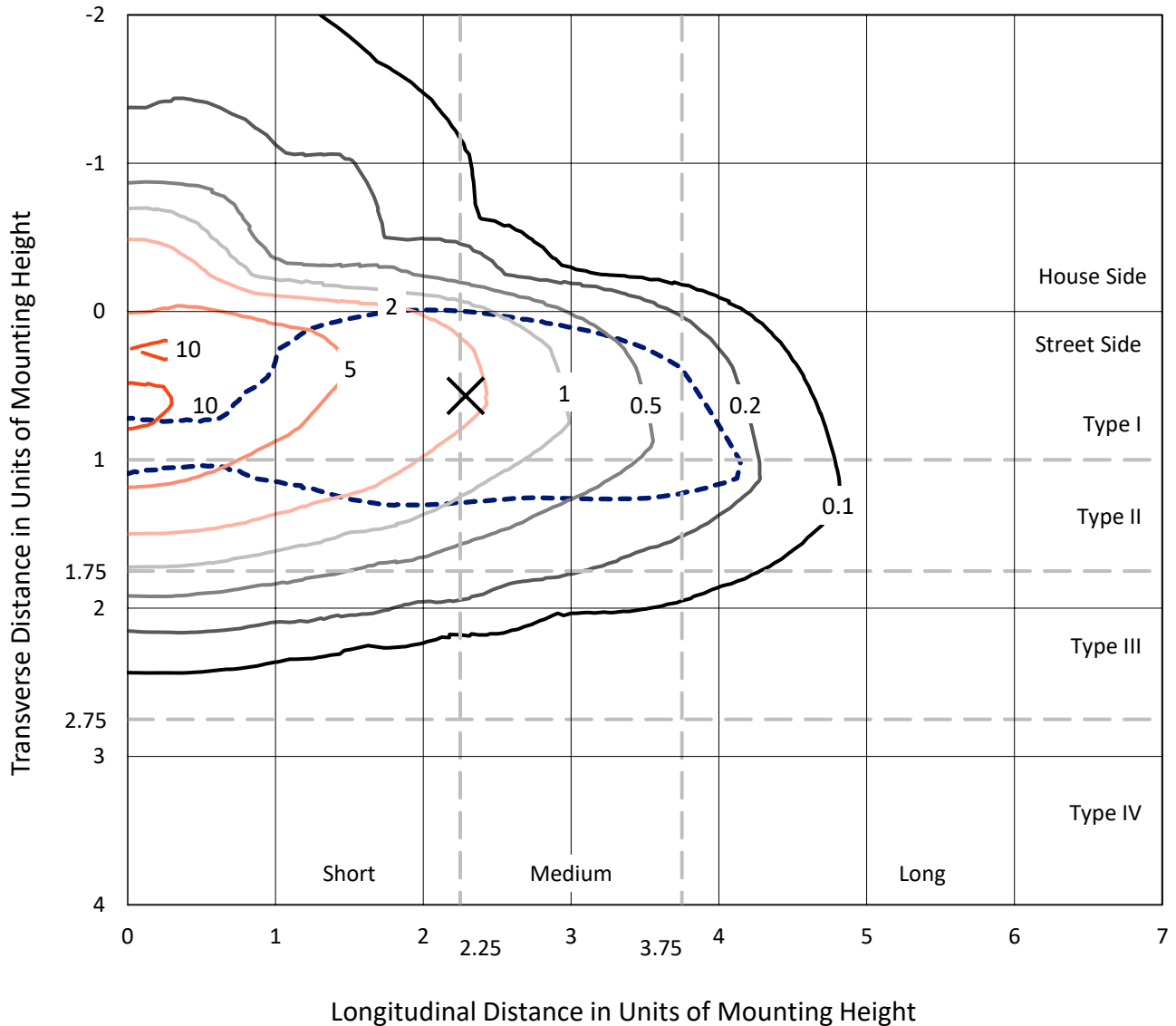
Lumens per Lamp: N/A  
Luminaire Lumens: 28647.2 lumens  
Efficiency: N/A  
Efficacy: 114.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4

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

REPORT NUMBER: P476931  
 CATALOG NUMBER: IFLD-M-SA4D-730-U-T2R

### Iso-Footcandle Lines of Horizontal Illumination

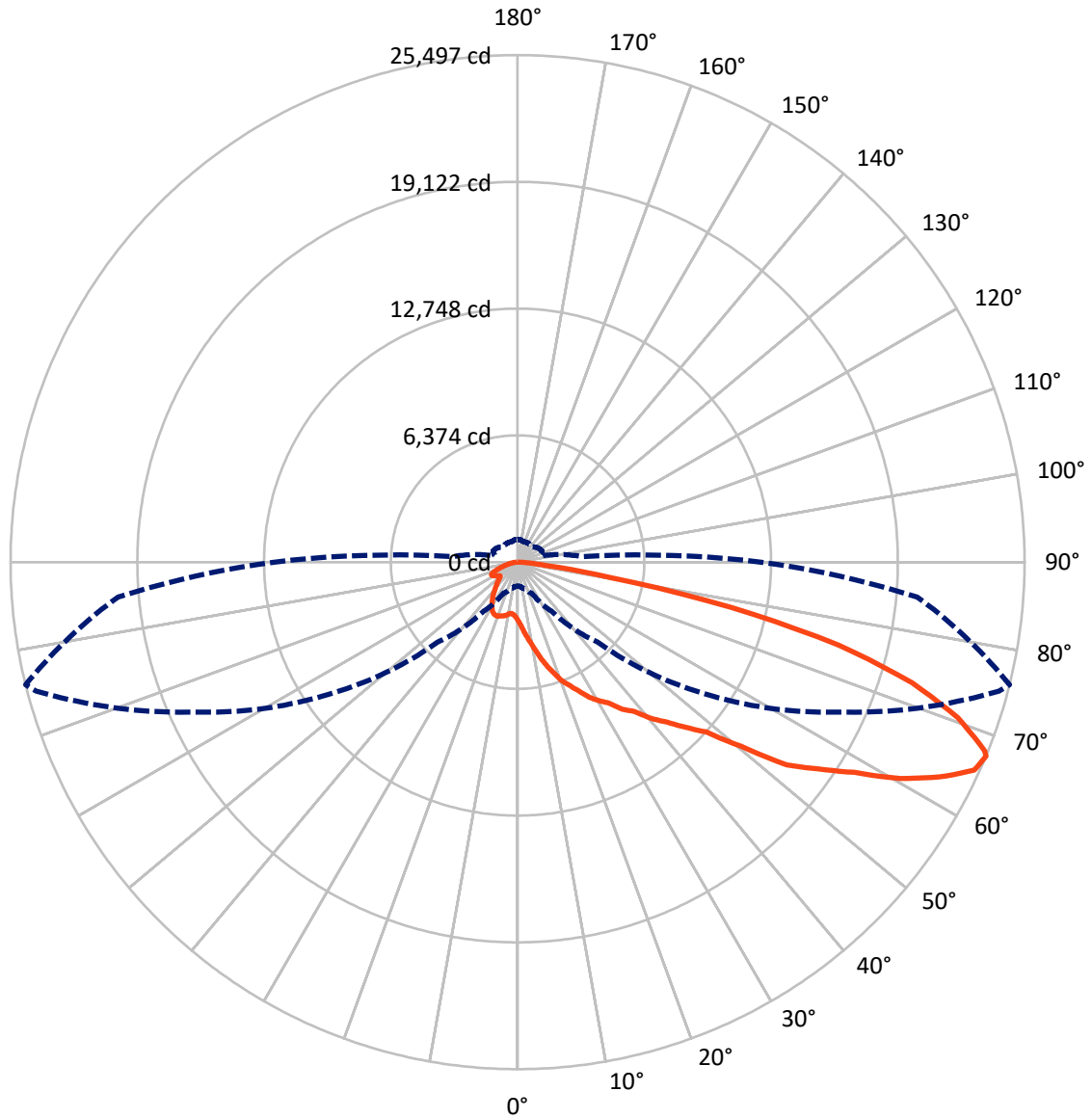
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc  
 Type II - Medium - N/A

REPORT NUMBER: P476931  
CATALOG NUMBER: IFLD-M-SA4D-730-U-T2R

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P476931  
 CATALOG NUMBER: IFLD-M-SA4D-730-U-T2R

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4075.4	0.0	4075.4
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	24571.8	0.0	24571.8
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	28647.2	0.0	28647.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	339.6	1.2
10°-20°	1273.6	4.4
20°-30°	2367.8	8.3
30°-40°	3753.5	13.1
40°-50°	5191.5	18.1
50°-60°	6385.9	22.3
60°-70°	5942.3	20.7
70°-80°	2981.8	10.4
80°-90°	411.2	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°	28647.2	100.0
0°-180°	28647.2	100.0

**Coefficient of Utilization**



REPORT NUMBER: P476931

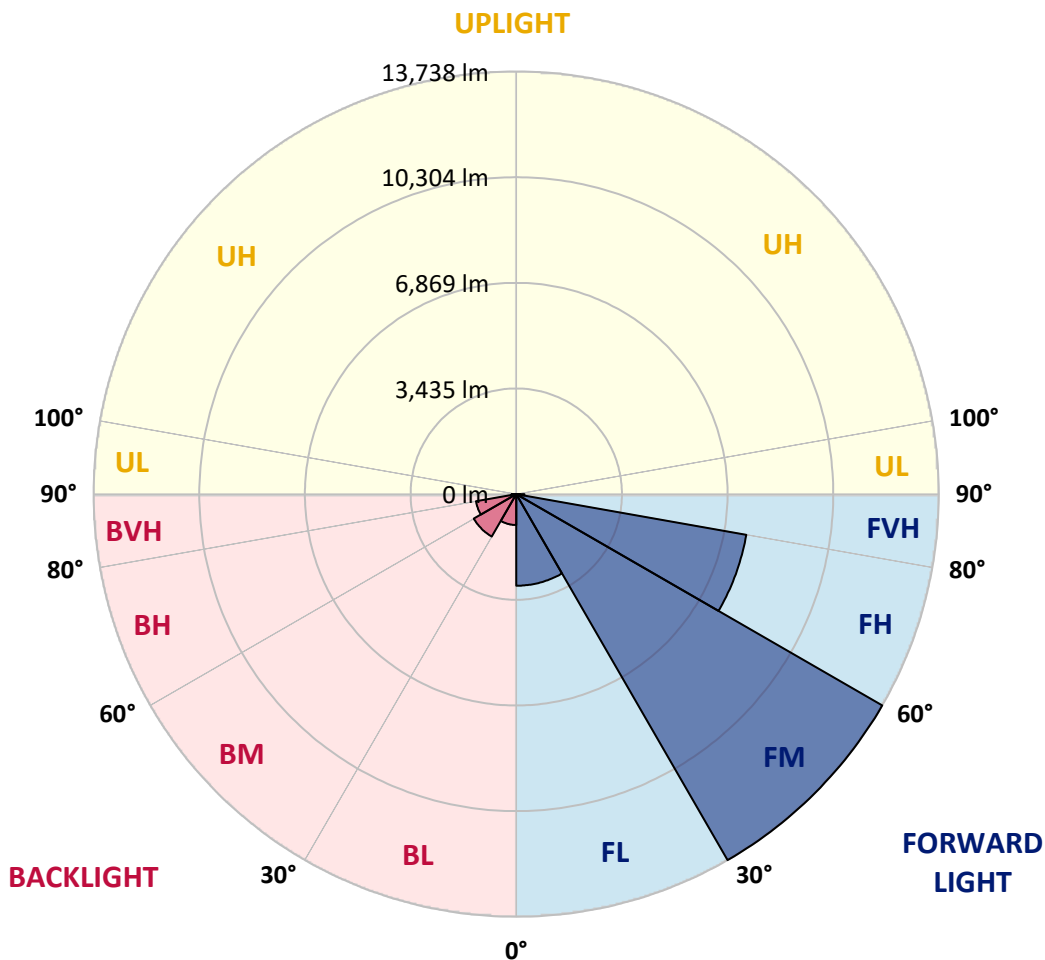
CATALOG NUMBER: IFLD-M-SA4D-730-U-T2R

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2977.4	10.4			
FM (30°-60°)	13738.3	48.0			
FH (60°-80°)	7594.1	26.5			G4/12000
FVH (80°-90°)	262.0	0.9			G3/500
BL (0°-30°)	1003.6	3.5	B3/2500		
BM (30°-60°)	1592.6	5.6	B2/2500		
BH (60°-80°)	1330.0	4.6	B3/2500		G3/2500
BVH (80°-90°)	149.2	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-G4**

Type II Medium





REPORT NUMBER: P476931  
 CATALOG NUMBER: IFLD-M-SA4D-730-U-T2R

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2931.6	2931.6	2931.6	2931.6	2931.6	2931.6	2931.6	2931.6	2931.6	2931.6	2931.6
2.5°	4067.7	4018.7	3969.7	3865.3	3829.4	3731.4	3551.9	3352.7	3189.5	3166.7	3052.4
5°	5047.1	4975.2	4958.9	4900.2	4714.1	4524.7	4230.9	3911.0	3512.7	3542.1	3150.3
7.5°	5781.6	5739.2	5651.0	5595.5	5484.5	5233.1	4929.5	4505.1	3999.1	3901.2	3369.1
10°	6336.6	6277.8	6274.6	6225.6	6166.8	5908.9	5677.1	5105.8	4456.2	4322.3	3636.8
12.5°	6617.3	6607.5	6780.6	6780.6	6757.7	6650.0	6251.7	5729.4	4890.4	4844.7	3946.9
15°	6920.9	6839.3	6989.5	7103.8	7162.5	7218.0	6888.3	6336.6	5445.3	5357.2	4279.9
17.5°	6920.9	6914.4	7064.6	7253.9	7560.8	7632.6	7453.1	6894.8	5905.7	5840.4	4645.5
20°	6803.4	6898.1	7002.6	7257.2	7590.2	7880.7	7933.0	7466.1	6414.9	6362.7	5060.1
22.5°	7351.9	7260.5	7368.2	7466.1	7724.0	8164.8	8308.4	7968.9	6950.3	6751.2	5435.6
25°	8272.5	8210.5	8132.1	7988.5	8096.2	8288.8	8507.5	8341.0	7407.4	7185.4	5797.9
27.5°	9170.3	9173.5	9003.8	8690.4	8458.6	8497.7	8755.6	8667.5	7792.6	7694.7	6046.0
30°	10446.7	10368.4	10179.0	9754.6	9300.8	8928.7	8886.2	8971.1	8282.3	8092.9	6401.9
32.5°	11403.2	11419.6	11151.9	10541.4	9921.1	9617.5	9245.3	9281.2	8592.4	8452.0	6685.9
35°	12176.9	12157.4	11968.0	11462.0	10727.5	10361.8	9859.1	9653.4	9313.9	9091.9	7120.1
37.5°	13012.7	12852.7	12545.8	11974.5	11504.4	10998.4	10508.7	10045.2	9793.8	9526.1	7492.2
40°	13348.9	13348.9	12937.6	12676.4	12118.2	11736.2	11419.6	10561.0	10378.2	10325.9	7968.9
42.5°	13110.6	13257.5	13087.8	12790.7	12562.2	12079.0	11994.1	11096.4	11099.6	10995.2	8540.2
45°	13087.8	12885.4	12745.0	12820.1	12712.3	12686.2	12901.7	11837.4	11857.0	11844.0	9307.4
47.5°	12431.6	12340.2	12549.1	12673.2	12761.3	13166.1	13786.4	12722.1	12862.5	12764.6	10192.1
50°	11778.7	11762.3	11892.9	12343.4	12725.4	13391.4	14628.7	14086.7	14547.0	14540.5	11795.0
52.5°	9989.7	10162.7	10675.2	11628.5	12572.0	13698.2	15265.3	15830.0	16708.2	16946.5	13123.7
55°	8279.0	8187.6	8945.0	10329.2	11902.7	13819.0	15976.9	16878.0	18170.7	18343.8	14488.3
57.5°	6441.0	6610.8	7208.2	8536.9	10518.5	13221.6	16499.3	17912.8	19822.6	19956.5	16071.6
60°	4805.5	4828.3	5484.5	6555.3	8677.3	11873.3	16669.0	18973.8	21716.1	22098.1	17730.0
62.5°	3023.0	3160.1	3659.6	4714.1	6532.5	9986.4	15908.4	19617.0	23701.0	23802.2	19401.5
65°	1629.0	1717.2	2092.6	2755.3	4563.9	7554.3	13890.9	19231.7	24634.6	25235.3	20145.8
67°	1204.6	1221.0	1394.0	1759.6	3052.4	5686.9	11582.8	17837.8	25059.0	25496.5	20175.2
67.5°	1129.6	1152.4	1289.5	1580.1	2706.4	5236.4	10978.8	17341.5	24869.7	25339.8	19946.7
70°	966.3	972.8	1005.5	1087.1	1518.0	3150.3	7475.9	14210.8	23051.3	23501.8	18343.8
72.5°	858.6	865.1	878.2	894.5	1028.3	1821.6	4547.6	10936.4	20034.8	20753.0	15826.8
75°	754.1	777.0	783.5	770.4	874.9	1185.0	2419.1	8037.4	16342.6	16691.9	12307.5
77.5°	639.9	649.7	662.7	675.8	780.2	884.7	1162.2	5425.8	11217.2	11005.0	6656.5
80°	538.7	541.9	551.7	561.5	675.8	675.8	659.4	2931.6	4900.2	4684.7	2249.3
82.5°	385.2	408.1	430.9	457.0	561.5	453.8	430.9	1305.8	1550.7	1475.6	760.7
85°	150.2	182.8	284.0	313.4	355.8	244.8	287.3	564.8	646.4	639.9	284.0
87.5°	26.1	29.4	78.4	120.8	130.6	84.9	137.1	202.4	241.6	261.2	104.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P476931  
 CATALOG NUMBER: IFLD-M-SA4D-730-U-T2R

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2931.6	2931.6	2931.6	2931.6	2931.6	2931.6	2931.6	2931.6	2931.6	2931.6	2931.6
2.5°	2957.7	2856.5	2735.7	2614.9	2536.6	2412.5	2402.7	2327.7	2317.9	2291.7	2304.8
5°	2980.6	2859.8	2614.9	2422.3	2334.2	2262.4	2278.7	2246.0	2236.2	2219.9	2193.8
7.5°	3160.1	2921.8	2556.2	2389.7	2324.4	2291.7	2291.7	2252.6	2223.2	2242.8	2262.4
10°	3277.7	2951.2	2601.9	2435.4	2383.2	2311.3	2337.5	2288.5	2304.8	2265.6	2265.6
12.5°	3467.0	3117.7	2696.6	2503.9	2419.1	2353.8	2379.9	2324.4	2311.3	2314.6	2304.8
15°	3721.6	3228.7	2739.0	2543.1	2484.4	2402.7	2383.2	2334.2	2285.2	2268.9	2288.5
17.5°	3960.0	3365.8	2768.4	2566.0	2471.3	2379.9	2357.0	2295.0	2278.7	2229.7	2190.5
20°	4244.0	3529.0	2807.6	2585.6	2422.3	2330.9	2272.2	2210.1	2154.6	2125.3	2138.3
22.5°	4433.3	3613.9	2827.1	2546.4	2350.5	2265.6	2141.6	2099.1	2020.8	1988.1	1962.0
25°	4743.5	3718.4	2778.2	2438.7	2223.2	2086.1	1975.1	1916.3	1860.8	1818.4	1805.3
27.5°	4821.8	3796.7	2663.9	2255.8	2020.8	1877.1	1782.5	1710.6	1674.7	1609.4	1596.4
30°	5050.3	3718.4	2494.2	2033.8	1828.2	1681.3	1586.6	1534.4	1449.5	1433.2	1397.2
32.5°	5197.2	3741.2	2278.7	1818.4	1606.2	1475.6	1413.6	1361.3	1338.5	1260.1	1240.5
35°	5442.1	3662.9	2060.0	1619.2	1423.4	1322.2	1269.9	1253.6	1178.5	1142.6	1110.0
37.5°	5598.8	3617.2	1841.2	1394.0	1224.2	1181.8	1198.1	1129.6	1038.1	969.6	946.7
40°	5873.0	3600.9	1593.1	1207.9	1087.1	1077.3	1129.6	999.0	832.5	773.7	741.1
42.5°	6268.0	3489.9	1400.5	1041.4	979.4	1021.8	1031.6	832.5	737.8	688.8	666.0
45°	6646.7	3512.7	1211.2	861.9	852.1	914.1	891.2	705.2	649.7	613.7	633.3
47.5°	7374.7	3627.0	1025.1	718.2	767.2	825.9	692.1	630.1	577.8	551.7	555.0
50°	8501.0	3738.0	861.9	656.2	724.7	747.6	594.2	571.3	568.0	515.8	512.5
52.5°	9176.8	3695.5	832.5	734.5	777.0	747.6	646.4	630.1	604.0	581.1	555.0
55°	10250.8	3819.6	894.5	858.6	881.4	718.2	724.7	718.2	698.6	639.9	656.2
57.5°	11106.2	3901.2	976.1	959.8	946.7	747.6	757.4	760.7	747.6	721.5	744.3
60°	12281.4	4064.4	1061.0	1064.3	1067.5	812.9	829.2	848.8	845.5	835.7	842.3
62.5°	13002.9	3989.3	1155.7	1207.9	1191.6	946.7	943.5	956.5	956.5	972.8	982.6
65°	12895.2	3711.8	1204.6	1335.2	1250.3	1044.7	1044.7	1051.2	1054.5	1087.1	1090.4
67°	12248.8	3215.6	1178.5	1354.8	1250.3	1083.8	1083.8	1090.4	1067.5	1152.4	1126.3
67.5°	11948.4	3068.7	1155.7	1338.5	1240.5	1080.6	1080.6	1083.8	1064.3	1145.9	1119.8
70°	10391.2	2278.7	995.7	1185.0	1149.1	1051.2	1051.2	1031.6	1015.3	1123.0	1100.2
72.5°	8869.9	1655.2	799.8	1008.8	1038.1	1012.0	1018.6	969.6	923.9	999.0	979.4
75°	6793.6	1217.7	623.5	777.0	878.2	946.7	989.2	865.1	806.4	825.9	790.0
77.5°	3790.2	793.3	493.0	574.6	669.2	881.4	950.0	780.2	659.4	636.6	636.6
80°	1286.3	463.6	362.4	427.7	460.3	780.2	888.0	633.3	519.1	496.2	479.9
82.5°	486.4	284.0	248.1	293.8	293.8	617.0	724.7	486.4	391.8	506.0	515.8
85°	222.0	169.8	163.2	169.8	169.8	378.7	512.5	316.7	352.6	303.6	267.7
87.5°	88.1	81.6	75.1	71.8	58.8	65.3	176.3	84.9	160.0	42.4	39.2
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)