

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: P476867

Luminaire Tested: **IFLD-S-SA2D-727-U-T2R**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476867  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2D-727-U-T2R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens  
Light Source: (32) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

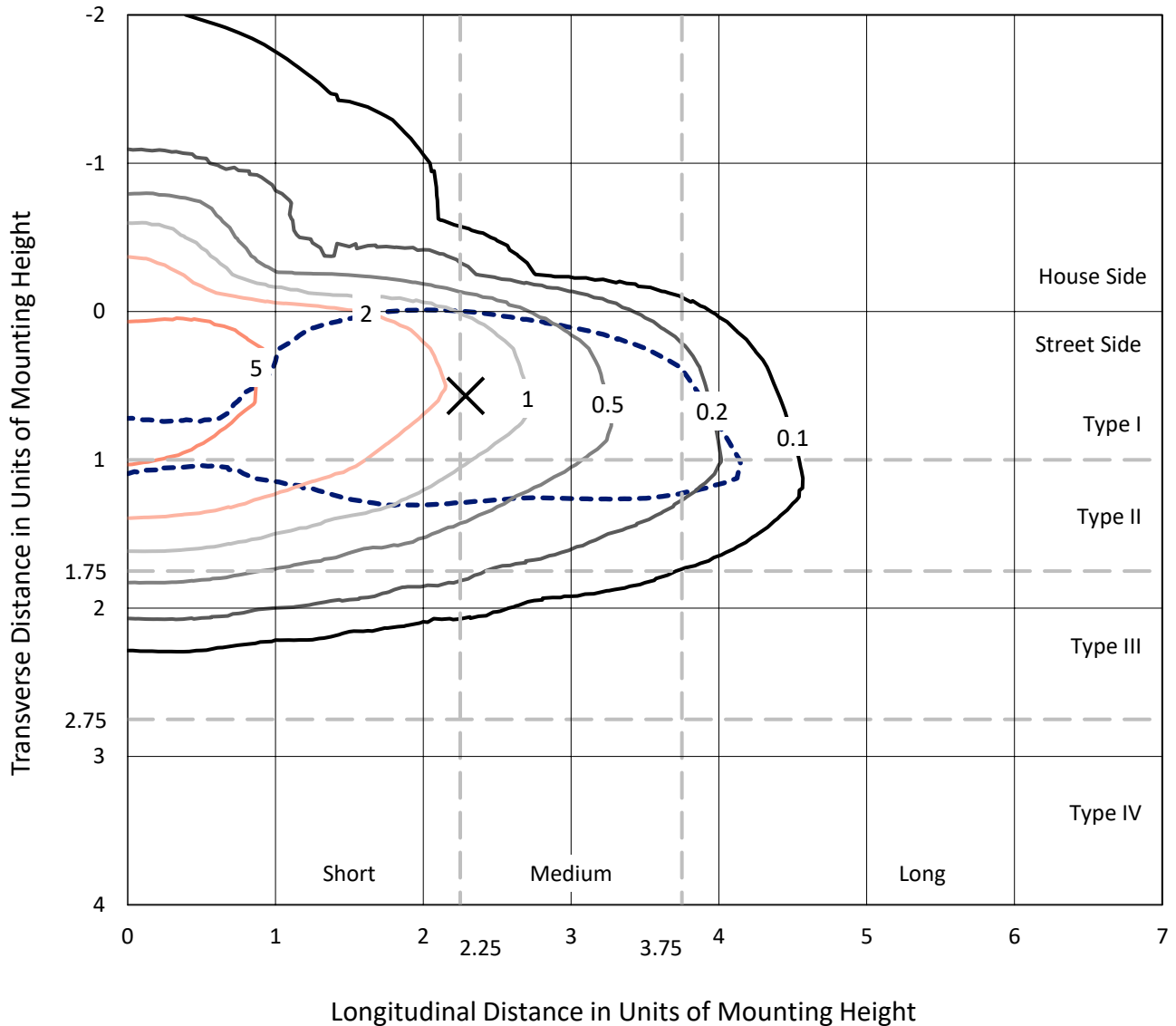
Lumens per Lamp: N/A  
Luminaire Lumens: 13152.8 lumens  
Efficiency: N/A  
Efficacy: 106.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2

Input Watts (W): 123.9  
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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 CATALOG NUMBER: IFLD-S-SA2D-727-U-T2R

### Iso-Footcandle Lines of Horizontal Illumination

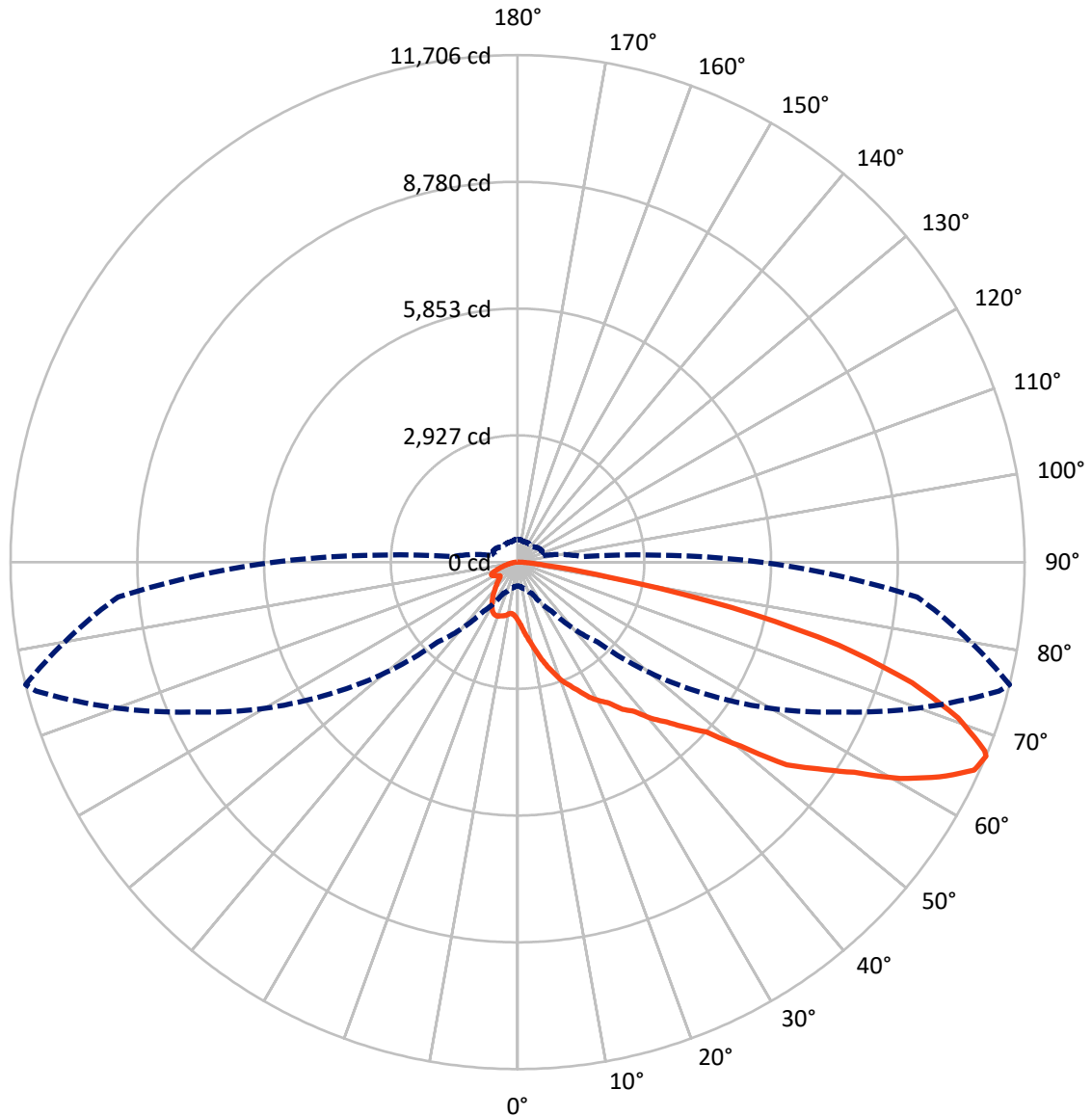
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.8 fc  
 Type II - Medium - N/A

REPORT NUMBER: P476867  
CATALOG NUMBER: IFLD-S-SA2D-727-U-T2R

### 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	1871.2	0.0	1871.2
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	11281.7	0.0	11281.7
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	13152.8	0.0	13152.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	155.9	1.2
10°-20°	584.8	4.4
20°-30°	1087.1	8.3
30°-40°	1723.4	13.1
40°-50°	2383.6	18.1
50°-60°	2931.9	22.3
60°-70°	2728.3	20.7
70°-80°	1369.1	10.4
80°-90°	188.8	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°	13152.8	100.0
0°-180°	13152.8	100.0

**Coefficient of Utilization**



REPORT NUMBER: P476867

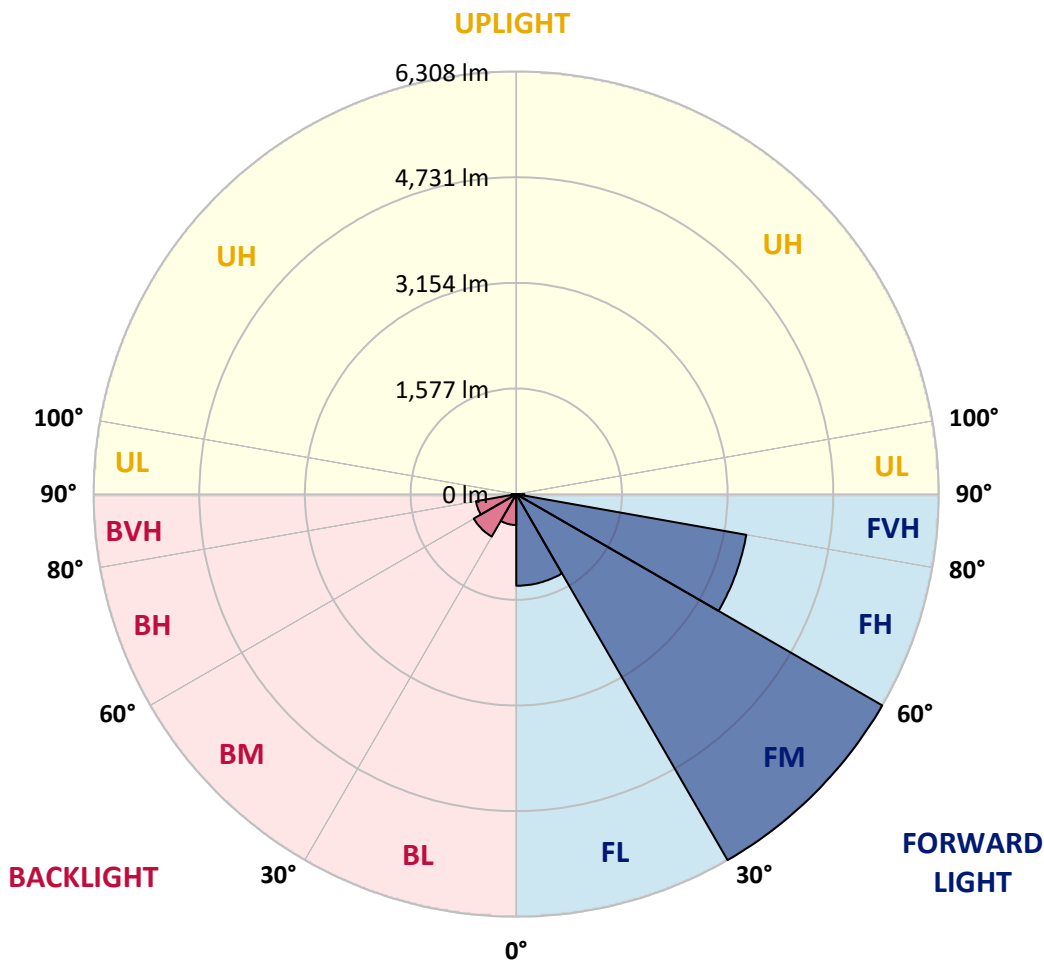
CATALOG NUMBER: IFLD-S-SA2D-727-U-T2R

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1367.0	10.4			
FM (30°-60°)	6307.7	48.0			
FH (60°-80°)	3486.7	26.5			G2/5000
FVH (80°-90°)	120.3	0.9			G2/225
BL (0°-30°)	460.8	3.5	B1/500		
BM (30°-60°)	731.2	5.6	B1/1000		
BH (60°-80°)	610.7	4.6	B2/1000		G2/1000
BVH (80°-90°)	68.5	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





REPORT NUMBER: P476867  
 CATALOG NUMBER: IFLD-S-SA2D-727-U-T2R

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1346.0	1346.0	1346.0	1346.0	1346.0	1346.0	1346.0	1346.0	1346.0	1346.0	1346.0
2.5°	1867.6	1845.1	1822.6	1774.7	1758.2	1713.2	1630.8	1539.3	1464.4	1453.9	1401.5
5°	2317.3	2284.3	2276.8	2249.8	2164.4	2077.4	1942.5	1795.7	1612.8	1626.3	1446.4
7.5°	2654.5	2635.0	2594.6	2569.1	2518.1	2402.7	2263.3	2068.5	1836.1	1791.2	1546.8
10°	2909.3	2882.3	2880.8	2858.4	2831.4	2713.0	2606.5	2344.2	2046.0	1984.5	1669.7
12.5°	3038.2	3033.7	3113.2	3113.2	3102.7	3053.2	2870.4	2630.5	2245.3	2224.3	1812.1
15°	3177.6	3140.1	3209.1	3261.6	3288.5	3314.0	3162.6	2909.3	2500.1	2459.7	1965.0
17.5°	3177.6	3174.6	3243.6	3330.5	3471.4	3504.4	3421.9	3165.6	2711.5	2681.5	2132.9
20°	3123.7	3167.1	3215.1	3332.0	3484.9	3618.3	3642.3	3427.9	2945.3	2921.3	2323.3
22.5°	3375.5	3333.5	3383.0	3427.9	3546.3	3748.7	3814.6	3658.8	3191.1	3099.7	2495.6
25°	3798.2	3769.7	3733.7	3667.8	3717.2	3805.7	3906.1	3829.6	3401.0	3299.0	2662.0
27.5°	4210.3	4211.8	4133.9	3990.0	3883.6	3901.6	4020.0	3979.5	3577.8	3532.9	2775.9
30°	4796.4	4760.4	4673.5	4478.6	4270.3	4099.4	4079.9	4118.9	3802.7	3715.7	2939.3
32.5°	5235.6	5243.1	5120.2	4839.9	4555.1	4415.7	4244.8	4261.3	3945.0	3880.6	3069.7
35°	5590.8	5581.8	5494.9	5262.6	4925.3	4757.4	4526.6	4432.2	4276.3	4174.4	3269.1
37.5°	5974.5	5901.1	5760.2	5497.9	5282.0	5049.7	4824.9	4612.0	4496.6	4373.7	3439.9
40°	6128.9	6128.9	5940.1	5820.1	5563.8	5388.5	5243.1	4848.9	4764.9	4741.0	3658.8
42.5°	6019.5	6086.9	6009.0	5872.6	5767.7	5545.8	5506.9	5094.7	5096.2	5048.2	3921.1
45°	6009.0	5916.1	5851.6	5886.1	5836.6	5824.6	5923.6	5434.9	5443.9	5437.9	4273.3
47.5°	5707.7	5665.8	5761.7	5818.6	5859.1	6045.0	6329.8	5841.1	5905.6	5860.6	4679.5
50°	5408.0	5400.5	5460.4	5667.3	5842.6	6148.4	6716.5	6467.7	6679.0	6676.0	5415.4
52.5°	4586.6	4666.0	4901.3	5339.0	5772.2	6289.3	7008.8	7268.1	7671.3	7780.7	6025.5
55°	3801.2	3759.2	4106.9	4742.4	5464.9	6344.8	7335.5	7749.2	8342.8	8422.2	6652.0
57.5°	2957.3	3035.2	3309.5	3919.6	4829.4	6070.5	7575.3	8224.3	9101.2	9162.6	7379.0
60°	2206.3	2216.8	2518.1	3009.7	3984.0	5451.4	7653.3	8711.5	9970.5	10145.9	8140.4
62.5°	1388.0	1450.9	1680.2	2164.4	2999.3	4585.1	7304.0	9006.8	10881.9	10928.3	8907.8
65°	747.9	788.4	960.8	1265.1	2095.4	3468.4	6377.7	8829.9	11310.5	11586.3	9249.6
67°	553.1	560.6	640.0	807.9	1401.5	2611.0	5318.0	8189.9	11505.4	11706.2	9263.1
67.5°	518.6	529.1	592.1	725.5	1242.6	2404.2	5040.7	7962.0	11418.5	11634.3	9158.1
70°	443.7	446.7	461.7	499.1	697.0	1446.4	3432.4	6524.6	10583.6	10790.4	8422.2
72.5°	394.2	397.2	403.2	410.7	472.1	836.4	2087.9	5021.2	9198.6	9528.4	7266.6
75°	346.2	356.7	359.7	353.7	401.7	544.1	1110.7	3690.2	7503.4	7663.8	5650.8
77.5°	293.8	298.3	304.3	310.3	358.2	406.2	533.6	2491.1	5150.1	5052.7	3056.2
80°	247.3	248.8	253.3	257.8	310.3	310.3	302.8	1346.0	2249.8	2150.9	1032.7
82.5°	176.9	187.4	197.9	209.8	257.8	208.3	197.9	599.6	712.0	677.5	349.2
85°	68.9	83.9	130.4	143.9	163.4	112.4	131.9	259.3	296.8	293.8	130.4
87.5°	12.0	13.5	36.0	55.5	60.0	39.0	63.0	92.9	110.9	119.9	48.0
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-S-SA2D-727-U-T2R

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1346.0	1346.0	1346.0	1346.0	1346.0	1346.0	1346.0	1346.0	1346.0	1346.0	1346.0
2.5°	1358.0	1311.5	1256.1	1200.6	1164.6	1107.7	1103.2	1068.7	1064.2	1052.2	1058.2
5°	1368.5	1313.0	1200.6	1112.2	1071.7	1038.7	1046.2	1031.2	1026.7	1019.2	1007.2
7.5°	1450.9	1341.5	1173.6	1097.2	1067.2	1052.2	1052.2	1034.2	1020.7	1029.7	1038.7
10°	1504.9	1355.0	1194.6	1118.2	1094.2	1061.2	1073.2	1050.7	1058.2	1040.2	1040.2
12.5°	1591.8	1431.4	1238.1	1149.6	1110.7	1080.7	1092.7	1067.2	1061.2	1062.7	1058.2
15°	1708.7	1482.4	1257.6	1167.6	1140.6	1103.2	1094.2	1071.7	1049.2	1041.7	1050.7
17.5°	1818.1	1545.3	1271.0	1178.1	1134.7	1092.7	1082.2	1053.7	1046.2	1023.7	1005.7
20°	1948.5	1620.3	1289.0	1187.1	1112.2	1070.2	1043.2	1014.7	989.3	975.8	981.8
22.5°	2035.5	1659.3	1298.0	1169.1	1079.2	1040.2	983.3	963.8	927.8	912.8	900.8
25°	2177.9	1707.2	1275.5	1119.7	1020.7	957.8	906.8	879.8	854.4	834.9	828.9
27.5°	2213.8	1743.2	1223.1	1035.7	927.8	861.9	818.4	785.4	768.9	738.9	733.0
30°	2318.8	1707.2	1145.1	933.8	839.4	771.9	728.5	704.5	665.5	658.0	641.5
32.5°	2386.2	1717.7	1046.2	834.9	737.4	677.5	649.0	625.0	614.5	578.6	569.6
35°	2498.6	1681.7	945.8	743.4	653.5	607.0	583.1	575.6	541.1	524.6	509.6
37.5°	2570.6	1660.8	845.4	640.0	562.1	542.6	550.1	518.6	476.6	445.2	434.7
40°	2696.5	1653.3	731.5	554.6	499.1	494.6	518.6	458.7	382.2	355.2	340.2
42.5°	2877.8	1602.3	643.0	478.1	449.7	469.1	473.6	382.2	338.7	316.3	305.8
45°	3051.7	1612.8	556.1	395.7	391.2	419.7	409.2	323.8	298.3	281.8	290.8
47.5°	3386.0	1665.3	470.6	329.8	352.2	379.2	317.8	289.3	265.3	253.3	254.8
50°	3903.1	1716.2	395.7	301.3	332.8	343.2	272.8	262.3	260.8	236.8	235.3
52.5°	4213.3	1696.7	382.2	337.2	356.7	343.2	296.8	289.3	277.3	266.8	254.8
55°	4706.5	1753.7	410.7	394.2	404.7	329.8	332.8	329.8	320.8	293.8	301.3
57.5°	5099.2	1791.2	448.2	440.7	434.7	343.2	347.7	349.2	343.2	331.3	341.7
60°	5638.8	1866.1	487.1	488.6	490.1	373.2	380.7	389.7	388.2	383.7	386.7
62.5°	5970.0	1831.6	530.6	554.6	547.1	434.7	433.2	439.2	439.2	446.7	451.2
65°	5920.6	1704.2	553.1	613.0	574.1	479.6	479.6	482.6	484.1	499.1	500.6
67°	5623.8	1476.4	541.1	622.0	574.1	497.6	497.6	500.6	490.1	529.1	517.1
67.5°	5485.9	1408.9	530.6	614.5	569.6	496.1	496.1	497.6	488.6	526.1	514.1
70°	4770.9	1046.2	457.2	544.1	527.6	482.6	482.6	473.6	466.2	515.6	505.1
72.5°	4072.5	759.9	367.2	463.2	476.6	464.7	467.6	445.2	424.2	458.7	449.7
75°	3119.2	559.1	286.3	356.7	403.2	434.7	454.2	397.2	370.2	379.2	362.7
77.5°	1740.2	364.2	226.3	263.8	307.3	404.7	436.2	358.2	302.8	292.3	292.3
80°	590.6	212.8	166.4	196.4	211.3	358.2	407.7	290.8	238.3	227.8	220.3
82.5°	223.3	130.4	113.9	134.9	134.9	283.3	332.8	223.3	179.9	232.3	236.8
85°	101.9	77.9	74.9	77.9	77.9	173.9	235.3	145.4	161.9	139.4	122.9
87.5°	40.5	37.5	34.5	33.0	27.0	30.0	80.9	39.0	73.4	19.5	18.0
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)