

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: P476890

Luminaire Tested: **IFLD-M-SA4B-727-U-T2R**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476890  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4B-727-U-T2R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens  
Light Source: (64) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

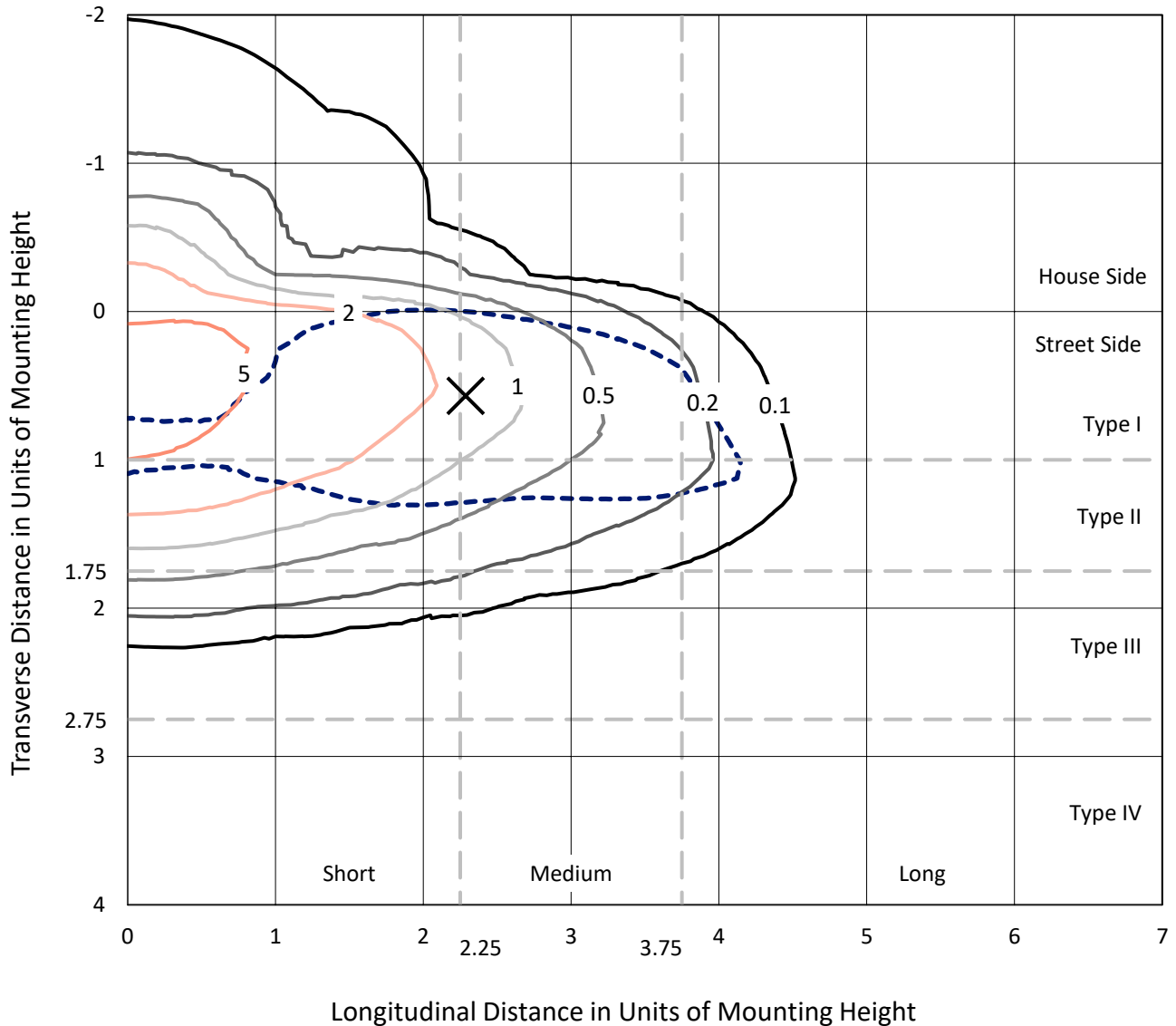
Lumens per Lamp: N/A  
Luminaire Lumens: 19208 lumens  
Efficiency: N/A  
Efficacy: 115.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G3

Input Watts (W): 166.1  
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

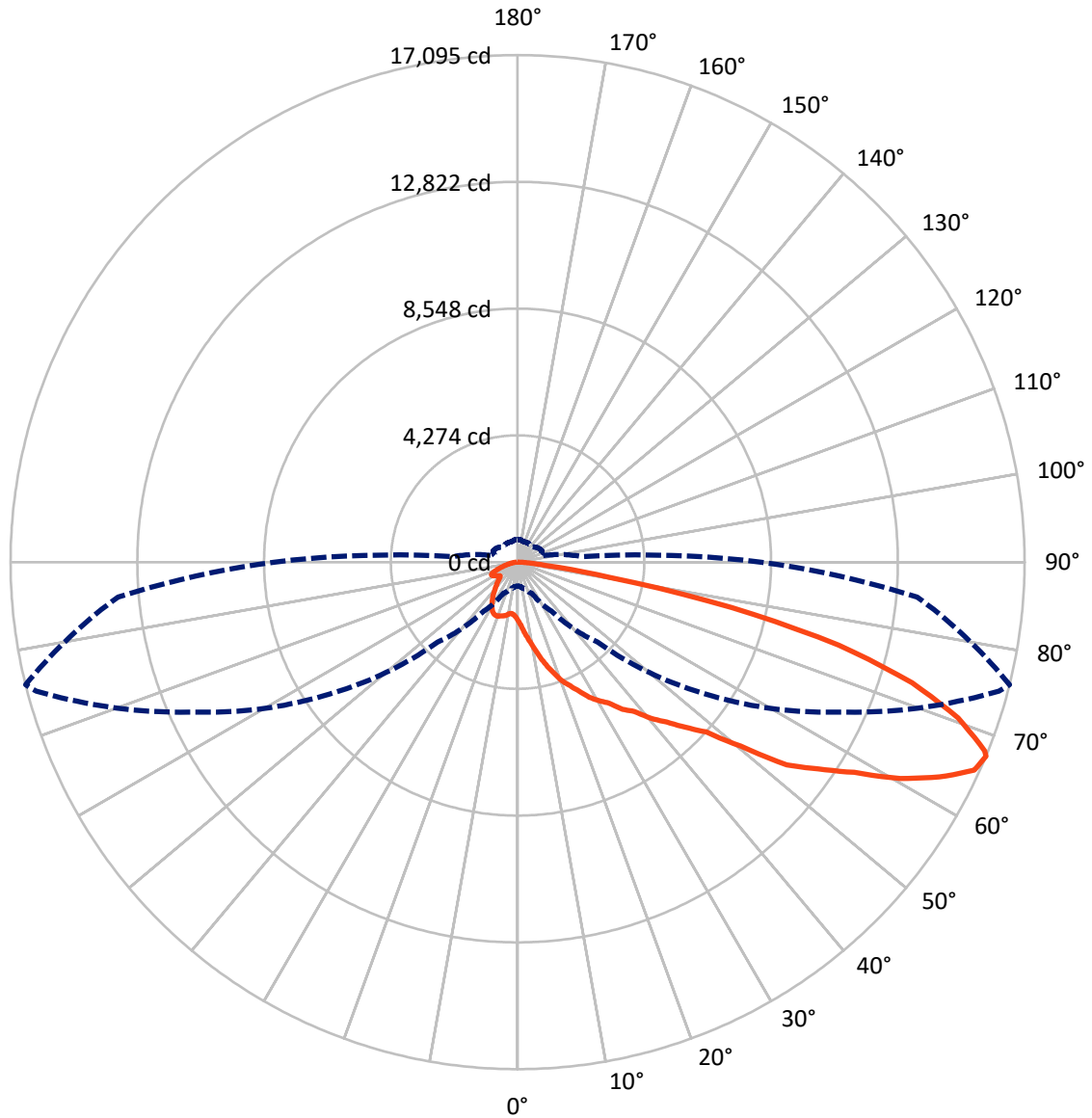
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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	2732.6	0.0	2732.6
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	16475.4	0.0	16475.4
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	19208.0	0.0	19208.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	227.7	1.2
10°-20°	854.0	4.4
20°-30°	1587.6	8.3
30°-40°	2516.8	13.1
40°-50°	3480.9	18.1
50°-60°	4281.7	22.3
60°-70°	3984.3	20.7
70°-80°	1999.3	10.4
80°-90°	275.7	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°	19208.0	100.0
0°-180°	19208.0	100.0

**Coefficient of Utilization**



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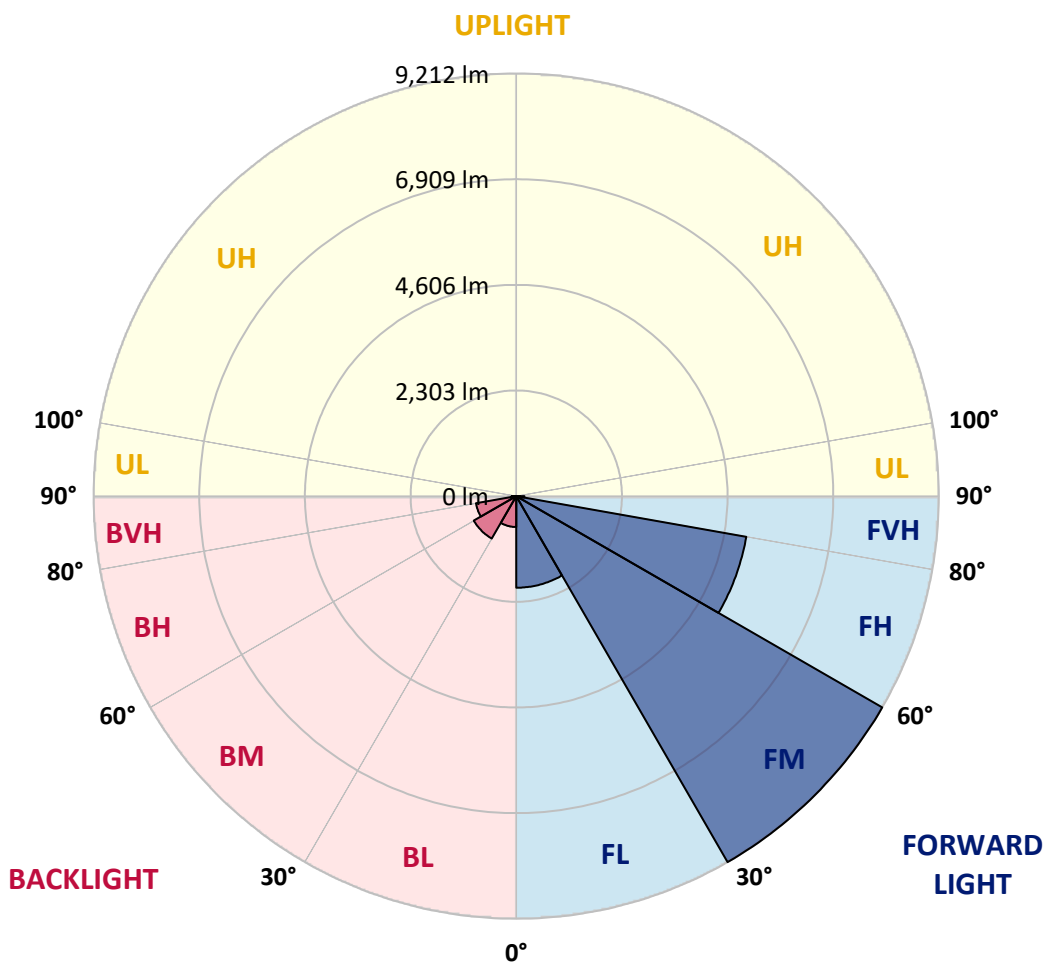
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1996.4	10.4			
FM (30°-60°)	9211.5	48.0			
FH (60°-80°)	5091.9	26.5			G3/7500
FVH (80°-90°)	175.6	0.9			G2/225
BL (0°-30°)	672.9	3.5	B2/1000		
BM (30°-60°)	1067.8	5.6	B2/2500		
BH (60°-80°)	891.8	4.6	B2/1000		G2/1000
BVH (80°-90°)	100.0	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1965.6	1965.6	1965.6	1965.6	1965.6	1965.6	1965.6	1965.6	1965.6	1965.6	1965.6
2.5°	2727.4	2694.6	2661.7	2591.7	2567.6	2501.9	2381.5	2248.0	2138.6	2123.2	2046.6
5°	3384.1	3335.9	3325.0	3285.6	3160.8	3033.8	2836.8	2622.3	2355.3	2375.0	2112.3
7.5°	3876.6	3848.1	3789.0	3751.8	3677.4	3508.8	3305.3	3020.7	2681.4	2615.7	2259.0
10°	4248.7	4209.3	4207.1	4174.3	4134.9	3961.9	3806.5	3423.5	2987.9	2898.1	2438.4
12.5°	4436.9	4430.4	4546.4	4546.4	4531.0	4458.8	4191.8	3841.5	3279.0	3248.3	2646.4
15°	4640.5	4585.8	4686.5	4763.1	4802.5	4839.7	4618.6	4248.7	3651.1	3592.0	2869.7
17.5°	4640.5	4636.1	4736.8	4863.8	5069.5	5117.7	4997.3	4623.0	3959.7	3916.0	3114.8
20°	4561.7	4625.2	4695.2	4866.0	5089.2	5284.0	5319.1	5006.0	4301.2	4266.2	3392.8
22.5°	4929.4	4868.1	4940.4	5006.0	5179.0	5474.5	5570.8	5343.1	4660.2	4526.7	3644.5
25°	5546.7	5505.1	5452.6	5356.3	5428.5	5557.6	5704.3	5592.7	4966.6	4817.8	3887.5
27.5°	6148.7	6150.8	6037.0	5826.9	5671.5	5697.7	5870.7	5811.6	5224.9	5159.3	4053.9
30°	7004.5	6952.0	6825.0	6540.5	6236.2	5986.7	5958.2	6015.1	5553.3	5426.3	4292.5
32.5°	7645.9	7656.8	7477.3	7068.0	6652.1	6448.5	6199.0	6223.1	5761.2	5667.1	4482.9
35°	8164.6	8151.5	8024.6	7685.3	7192.8	6947.6	6610.5	6472.6	6245.0	6096.1	4774.0
37.5°	8725.0	8617.7	8412.0	8028.9	7713.7	7374.4	7046.1	6735.3	6566.7	6387.2	5023.6
40°	8950.5	8950.5	8674.7	8499.5	8125.2	7869.1	7656.8	7081.1	6958.6	6923.5	5343.1
42.5°	8790.7	8889.2	8775.3	8576.2	8422.9	8099.0	8042.1	7440.1	7442.3	7372.3	5726.2
45°	8775.3	8639.6	8545.5	8595.9	8523.6	8506.1	8650.6	7937.0	7950.1	7941.4	6240.6
47.5°	8335.4	8274.1	8414.2	8497.4	8556.5	8827.9	9243.8	8530.2	8624.3	8558.6	6833.8
50°	7897.6	7886.6	7974.2	8276.3	8532.4	8978.9	9808.5	9445.2	9753.8	9749.4	7908.5
52.5°	6698.1	6814.1	7157.7	7796.9	8429.5	9184.7	10235.4	10614.0	11202.9	11362.6	8799.4
55°	5551.1	5489.8	5997.6	6925.7	7980.8	9265.7	10712.5	11316.7	12183.5	12299.5	9714.4
57.5°	4318.7	4432.5	4833.1	5724.0	7052.7	8865.1	11062.8	12010.6	13291.1	13380.8	10776.0
60°	3222.1	3237.4	3677.4	4395.3	5818.1	7961.1	11176.6	12722.0	14560.6	14816.7	11888.0
62.5°	2026.9	2118.9	2453.8	3160.8	4380.0	6695.9	10666.6	13153.2	15891.5	15959.4	13008.7
65°	1092.3	1151.4	1403.1	1847.4	3060.1	5065.1	9313.8	12894.9	16517.5	16920.3	13507.8
67°	807.7	818.7	934.7	1179.8	2046.6	3813.1	7766.3	11960.2	16802.1	17095.4	13527.5
67.5°	757.4	772.7	864.6	1059.4	1814.6	3511.0	7361.3	11627.5	16675.1	16990.3	13374.3
70°	647.9	652.3	674.2	728.9	1017.8	2112.3	5012.6	9528.3	15455.9	15758.0	12299.5
72.5°	575.7	580.1	588.8	599.8	689.5	1221.4	3049.2	7332.9	13433.4	13914.9	10611.8
75°	505.6	521.0	525.3	516.6	586.6	794.6	1622.0	5389.1	10957.7	11191.9	8252.2
77.5°	429.0	435.6	444.3	453.1	523.1	593.2	779.3	3638.0	7521.1	7378.8	4463.2
80°	361.2	363.4	369.9	376.5	453.1	453.1	442.2	1965.6	3285.6	3141.1	1508.2
82.5°	258.3	273.6	288.9	306.4	376.5	304.3	288.9	875.6	1039.7	989.4	510.0
85°	100.7	122.6	190.4	210.1	238.6	164.2	192.6	378.7	433.4	429.0	190.4
87.5°	17.5	19.7	52.5	81.0	87.6	56.9	91.9	135.7	162.0	175.1	70.0
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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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1965.6	1965.6	1965.6	1965.6	1965.6	1965.6	1965.6	1965.6	1965.6	1965.6	1965.6
2.5°	1983.2	1915.3	1834.3	1753.3	1700.8	1617.6	1611.0	1560.7	1554.1	1536.6	1545.4
5°	1998.5	1917.5	1753.3	1624.2	1565.1	1516.9	1527.9	1506.0	1499.4	1488.5	1470.9
7.5°	2118.9	1959.1	1713.9	1602.3	1558.5	1536.6	1536.6	1510.3	1490.6	1503.8	1516.9
10°	2197.7	1978.8	1744.6	1632.9	1597.9	1549.7	1567.3	1534.4	1545.4	1519.1	1519.1
12.5°	2324.6	2090.4	1808.0	1678.9	1622.0	1578.2	1595.7	1558.5	1549.7	1551.9	1545.4
15°	2495.4	2164.8	1836.5	1705.2	1665.8	1611.0	1597.9	1565.1	1532.2	1521.3	1534.4
17.5°	2655.1	2256.8	1856.2	1720.5	1657.0	1595.7	1580.4	1538.8	1527.9	1495.0	1468.8
20°	2845.6	2366.2	1882.5	1733.6	1624.2	1562.9	1523.5	1481.9	1444.7	1425.0	1433.7
22.5°	2972.5	2423.1	1895.6	1707.4	1576.0	1519.1	1435.9	1407.5	1354.9	1333.0	1315.5
25°	3180.5	2493.2	1862.8	1635.1	1490.6	1398.7	1324.3	1284.9	1247.7	1219.2	1210.5
27.5°	3233.0	2545.7	1786.2	1512.5	1354.9	1258.6	1195.1	1147.0	1122.9	1079.1	1070.4
30°	3386.2	2493.2	1672.3	1363.7	1225.8	1127.3	1063.8	1028.8	971.9	960.9	936.9
32.5°	3484.7	2508.5	1527.9	1219.2	1076.9	989.4	947.8	912.8	897.5	844.9	831.8
35°	3648.9	2456.0	1381.2	1085.7	954.4	886.5	851.5	840.5	790.2	766.1	744.2
37.5°	3754.0	2425.3	1234.5	934.7	820.8	792.4	803.3	757.4	696.1	650.1	634.8
40°	3937.9	2414.4	1068.2	809.9	728.9	722.3	757.4	669.8	558.2	518.8	496.9
42.5°	4202.7	2339.9	939.0	698.3	656.7	685.1	691.7	558.2	494.7	461.9	446.5
45°	4456.6	2355.3	812.1	577.9	571.3	612.9	597.6	472.8	435.6	411.5	424.6
47.5°	4944.8	2431.9	687.3	481.6	514.4	553.8	464.0	422.5	387.4	369.9	372.1
50°	5699.9	2506.3	577.9	440.0	485.9	501.3	398.4	383.1	380.9	345.8	343.7
52.5°	6153.0	2477.8	558.2	492.5	521.0	501.3	433.4	422.5	404.9	389.6	372.1
55°	6873.2	2561.0	599.8	575.7	591.0	481.6	485.9	481.6	468.4	429.0	440.0
57.5°	7446.7	2615.7	654.5	643.5	634.8	501.3	507.8	510.0	501.3	483.7	499.1
60°	8234.7	2725.2	711.4	713.6	715.8	545.0	556.0	569.1	566.9	560.4	564.7
62.5°	8718.4	2674.9	774.9	809.9	799.0	634.8	632.6	641.4	641.4	652.3	658.9
65°	8646.2	2488.8	807.7	895.3	838.4	700.5	700.5	704.8	707.0	728.9	731.1
67°	8212.8	2156.1	790.2	908.4	838.4	726.7	726.7	731.1	715.8	772.7	755.2
67.5°	8011.4	2057.6	774.9	897.5	831.8	724.5	724.5	726.7	713.6	768.3	750.8
70°	6967.3	1527.9	667.6	794.6	770.5	704.8	704.8	691.7	680.8	753.0	737.7
72.5°	5947.3	1109.8	536.3	676.4	696.1	678.6	682.9	650.1	619.5	669.8	656.7
75°	4555.1	816.5	418.1	521.0	588.8	634.8	663.2	580.1	540.7	553.8	529.7
77.5°	2541.3	531.9	330.5	385.2	448.7	591.0	637.0	523.1	442.2	426.8	426.8
80°	862.4	310.8	243.0	286.7	308.6	523.1	595.4	424.6	348.0	332.7	321.8
82.5°	326.1	190.4	166.4	197.0	197.0	413.7	485.9	326.1	262.7	339.3	345.8
85°	148.8	113.8	109.4	113.8	113.8	253.9	343.7	212.3	236.4	203.6	179.5
87.5°	59.1	54.7	50.3	48.2	39.4	43.8	118.2	56.9	107.3	28.5	26.3
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)