

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: P480013

Luminaire Tested: **IFLD-M-SA4E-727-U-SL2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480013  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4E-727-U-SL2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens  
Light Source: (64) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

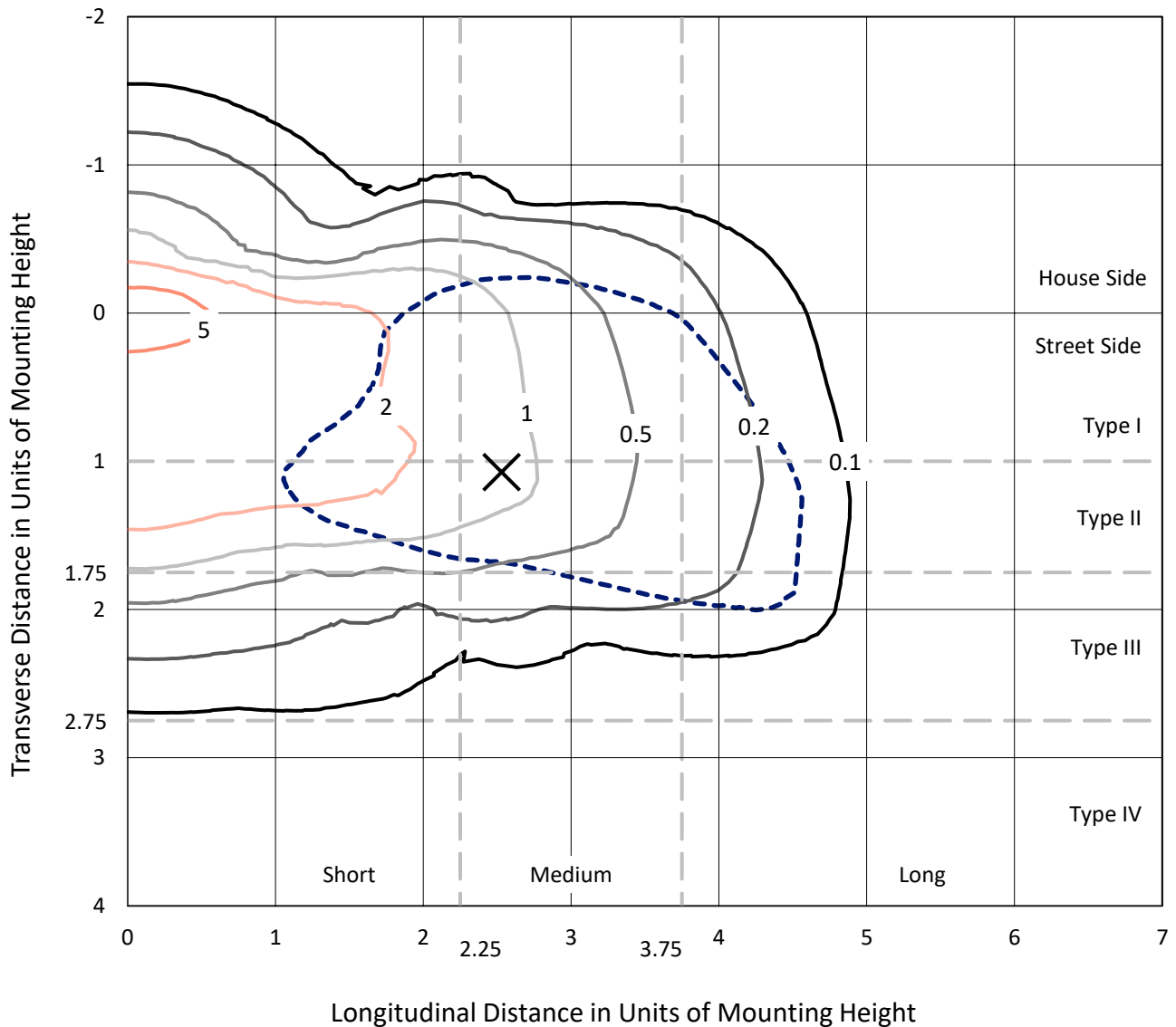
Lumens per Lamp: N/A  
Luminaire Lumens: 30188.8 lumens  
Efficiency: N/A  
Efficacy: 95.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

Input Watts (W): 314.8  
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

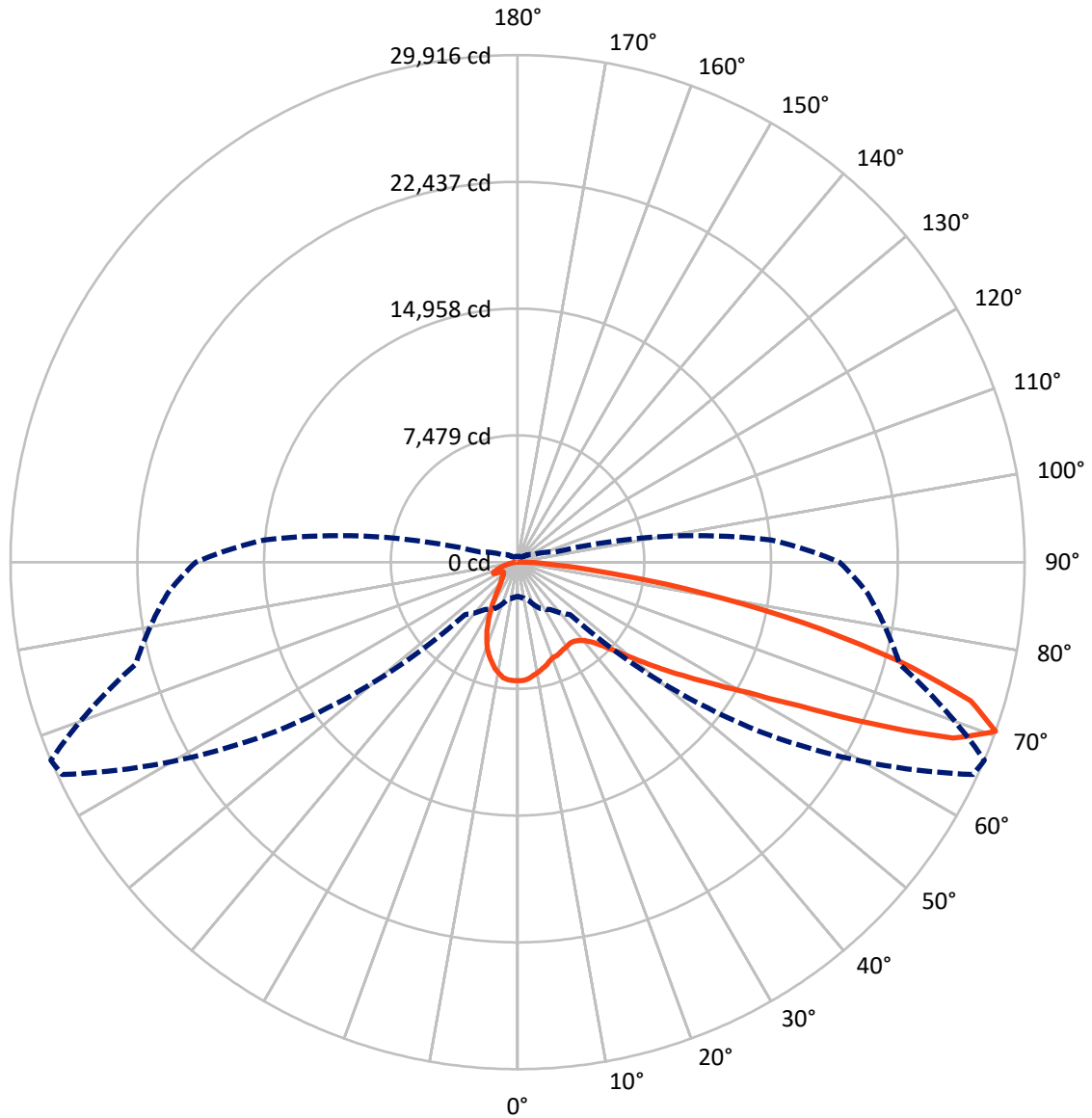
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.8 fc  
 Type III - Medium - N/A

REPORT NUMBER: P480013  
CATALOG NUMBER: IFLD-M-SA4E-727-U-SL2

### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5879.6	0.0	5879.6
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	24309.3	0.0	24309.3
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	30188.8	0.0	30188.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	609.8	2.0
10°-20°	1460.4	4.8
20°-30°	1972.1	6.5
30°-40°	2638.9	8.7
40°-50°	3880.4	12.9
50°-60°	6048.6	20.0
60°-70°	7450.9	24.7
70°-80°	5264.7	17.4
80°-90°	862.9	2.9
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°	30188.8	100.0
0°-180°	30188.8	100.0

**Coefficient of Utilization**

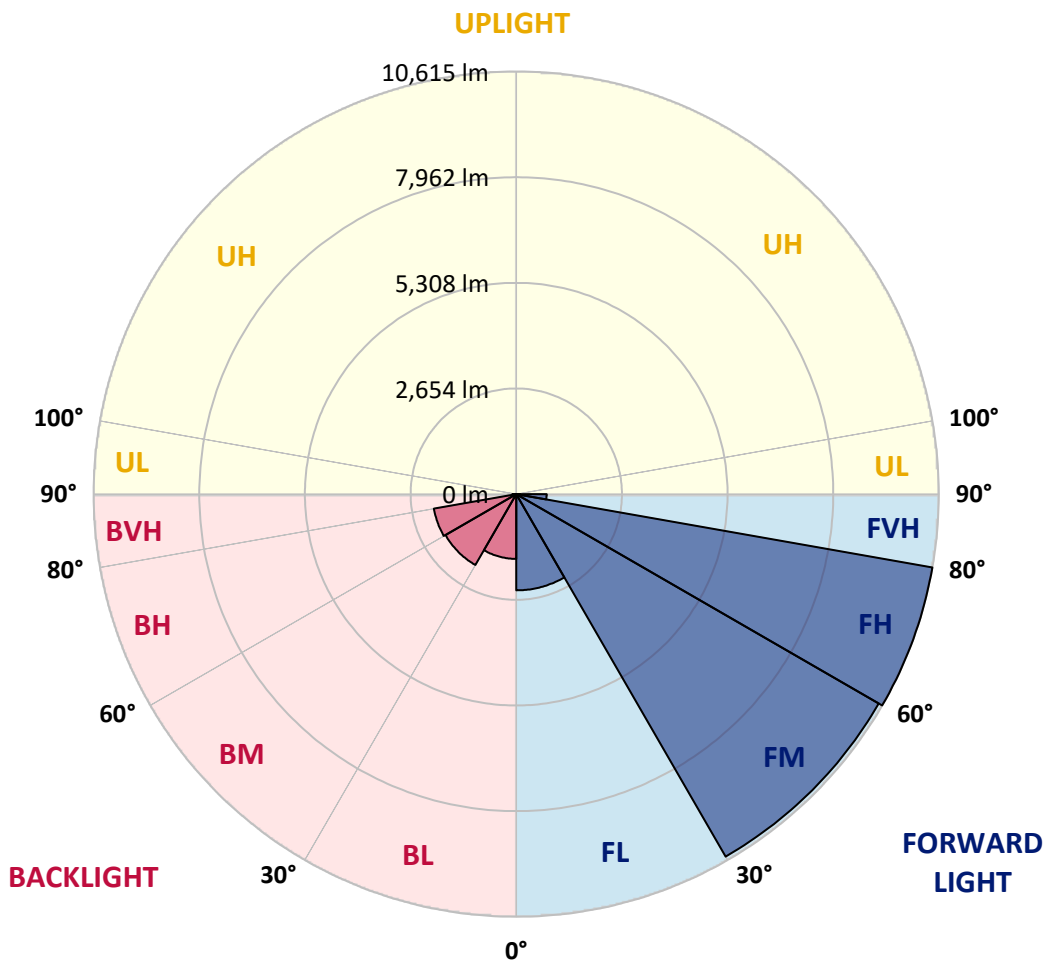


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 CATALOG NUMBER: IFLD-M-SA4E-727-U-SL2

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2416.4	8.0			
FM (30°-60°)	10514.1	34.8			
FH (60°-80°)	10615.4	35.2			G4/12000
FVH (80°-90°)	763.4	2.5			G5
BL (0°-30°)	1625.9	5.4	B3/2500		
BM (30°-60°)	2053.9	6.8	B2/2500		
BH (60°-80°)	2100.3	7.0	B3/2500		G3/2500
BVH (80°-90°)	99.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	6988.6	6988.6	6988.6	6988.6	6988.6	6988.6	6988.6	6988.6	6988.6	6988.6	6988.6
2.5°	6507.3	6580.9	6607.6	6647.7	6751.3	6828.2	6875.0	6928.5	6992.0	7045.4	7078.9
5°	6052.8	6092.9	6156.4	6199.8	6330.2	6537.4	6677.8	6905.1	6898.4	6981.9	7108.9
7.5°	5611.6	5651.7	5681.8	5768.7	5955.9	6143.0	6400.4	6768.0	6741.3	6935.1	7132.3
10°	5337.6	5307.5	5317.5	5464.6	5611.6	5822.2	6146.4	6520.7	6617.6	6918.4	7199.2
12.5°	5080.2	5046.8	5127.0	5220.6	5401.1	5591.6	5979.3	6316.8	6463.9	6858.3	7229.3
15°	4919.8	4896.4	4996.6	5036.7	5250.7	5477.9	5752.0	6163.1	6323.5	6784.7	7182.5
17.5°	4829.5	4849.6	4886.3	4973.2	5110.3	5304.1	5604.9	6059.5	6129.7	6694.5	7172.4
20°	4846.2	4869.6	4873.0	4909.7	5003.3	5153.7	5461.2	5949.2	5996.0	6677.8	7199.2
22.5°	4979.9	4946.5	4959.9	4936.5	4963.2	5080.2	5350.9	5802.1	5982.6	6537.4	7142.4
25°	5180.5	5133.7	5127.0	5046.8	4996.6	5030.1	5330.9	5765.4	5882.3	6494.0	7139.0
27.5°	5534.7	5464.6	5464.6	5344.2	5140.4	5086.9	5274.0	5705.2	5808.8	6453.9	7062.1
30°	5875.7	5875.7	5879.0	5708.5	5481.3	5217.2	5297.4	5681.8	5748.6	6333.5	6958.5
32.5°	6290.1	6280.1	6263.4	6179.8	5828.9	5434.5	5411.1	5651.7	5685.1	6293.4	6928.5
35°	6694.5	6667.8	6798.1	6724.6	6367.0	5858.9	5528.1	5665.1	5738.6	6233.3	6834.9
37.5°	6998.6	7015.4	7286.1	7332.9	7025.4	6340.2	5858.9	5798.8	5869.0	6320.2	6834.9
40°	7393.0	7459.9	7713.9	7871.0	7683.8	6975.2	6383.7	6022.7	6072.8	6514.0	6981.9
42.5°	7911.1	7967.9	8292.1	8496.0	8442.5	7784.1	6901.7	6490.6	6450.5	6838.2	7202.5
45°	8596.2	8606.3	8933.8	9214.5	9324.8	8629.7	7723.9	7082.2	7048.8	7396.4	7606.9
47.5°	9411.7	9401.7	9605.6	9906.4	10203.8	9639.0	8669.8	7981.3	7860.9	8195.2	8278.7
50°	10200.5	10157.1	10203.8	10588.2	11159.7	10902.4	9819.5	9080.9	8960.5	9144.4	9288.1
52.5°	10635.0	10688.5	10561.5	11069.5	12175.8	12396.4	11343.5	10394.4	10290.7	10381.0	10631.7
55°	10330.9	10441.1	10357.6	10838.9	12620.3	14217.9	13315.5	11915.1	11781.4	11748.0	12159.1
57.5°	9037.4	9237.9	9254.7	10016.7	12466.5	15628.3	16089.5	13709.9	13509.3	13168.4	13592.9
60°	6938.5	7139.0	7292.8	8195.2	11149.7	16470.5	19304.8	16263.3	15601.6	14719.2	14973.2
62.5°	4863.0	5000.0	5153.7	5708.5	8596.2	15975.9	22085.5	19859.6	18639.6	16353.6	16671.1
65°	3542.8	3649.7	3806.8	4134.3	5280.7	13218.5	23375.6	24130.9	22974.5	18432.4	18392.3
67.5°	2667.1	2733.9	2941.2	3465.9	3659.7	8165.1	22038.7	28643.0	27707.1	20741.9	19776.0
70°	2018.7	2075.5	2269.4	2988.0	3419.1	4378.3	17386.3	29649.0	29916.4	23332.1	20705.2
72.5°	1390.4	1453.9	1671.1	2490.0	3255.3	3472.6	10912.4	26935.1	27947.8	24398.3	19709.2
75°	852.3	895.7	1022.7	1888.4	3231.9	3395.7	6006.0	22072.1	23145.0	22543.4	17242.6
77.5°	601.6	598.3	621.7	1106.3	2800.8	3415.8	3703.2	16173.1	17215.9	16614.3	11701.2
80°	437.8	441.2	464.6	661.8	1901.7	3472.6	2917.8	10832.2	11143.0	8663.1	4615.6
82.5°	264.0	277.4	334.2	447.9	1143.0	3135.0	2697.2	6019.4	5631.7	2780.7	1270.0
85°	140.4	140.4	197.2	284.1	608.3	2339.6	2596.9	2864.3	2399.7	862.3	471.3
87.5°	33.4	33.4	56.8	113.6	244.0	1119.6	1771.4	1139.7	912.4	290.8	193.8
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°	6988.6	6988.6	6988.6	6988.6	6988.6	6988.6	6988.6	6988.6	6988.6	6988.6	6988.6
2.5°	7065.5	7025.4	7075.5	6975.2	6895.0	6898.4	6774.7	6768.0	6751.3	6664.4	6694.5
5°	7145.7	7112.3	7055.5	6945.2	6768.0	6590.9	6483.9	6346.9	6290.1	6260.0	6273.4
7.5°	7222.6	7162.4	6998.6	6844.9	6570.8	6236.6	6042.8	5858.9	5625.0	5598.2	5551.5
10°	7242.6	7115.6	6905.1	6577.5	6213.2	5842.2	5401.1	5060.1	4879.7	4739.3	4685.8
12.5°	7212.5	7159.1	6754.7	6333.5	5782.1	5200.5	4685.8	4204.5	3870.3	3696.5	3649.7
15°	7209.2	7115.6	6587.5	5962.5	5257.3	4498.6	3766.7	3188.5	2837.6	2693.8	2693.8
17.5°	7212.5	6988.6	6390.4	5588.2	4639.0	3613.0	2807.5	2332.9	2139.0	2119.0	2135.7
20°	7145.7	6895.0	6183.1	5147.0	3863.6	2713.9	2038.8	1844.9	1844.9	1871.7	1881.7
22.5°	7085.5	6754.7	5855.6	4602.3	3074.9	1965.2	1657.7	1600.9	1664.4	1711.2	1731.3
25°	7002.0	6637.7	5521.4	4037.4	2339.6	1584.2	1440.5	1453.9	1514.0	1597.6	1590.9
27.5°	6881.7	6433.8	5123.6	3382.3	1741.3	1367.0	1330.2	1336.9	1400.4	1437.2	1430.5
30°	6744.6	6226.6	4756.0	2730.6	1380.3	1253.3	1250.0	1266.7	1276.7	1296.8	1293.4
32.5°	6570.8	5952.5	4365.0	2122.3	1243.3	1189.8	1176.5	1166.4	1176.5	1173.1	1163.1
35°	6447.2	5805.5	3967.2	1617.6	1166.4	1133.0	1123.0	1106.3	1092.9	1072.9	1069.5
37.5°	6413.8	5658.4	3549.5	1320.2	1106.3	1089.6	1056.1	1026.1	1009.4	999.3	992.6
40°	6393.7	5561.5	3141.7	1159.8	1056.1	1039.4	999.3	959.2	942.5	932.5	935.8
42.5°	6463.9	5508.0	2727.3	1079.5	1012.7	982.6	939.2	892.4	889.0	882.4	892.4
45°	6711.2	5574.8	2342.9	1022.7	969.2	919.1	862.3	838.9	835.6	828.9	835.6
47.5°	7272.7	5742.0	2015.4	986.0	922.5	879.0	818.8	785.4	782.1	778.7	778.7
50°	8048.1	6256.7	1741.3	942.5	892.4	832.2	775.4	738.6	731.9	718.6	718.6
52.5°	9264.7	7122.3	1577.5	919.1	838.9	788.8	728.6	688.5	671.8	658.4	658.4
55°	10635.0	8195.2	1547.5	879.0	782.1	735.3	681.8	641.7	625.0	608.3	601.6
57.5°	12195.8	9615.6	1761.4	852.3	742.0	681.8	621.7	584.9	571.5	554.8	548.1
60°	13649.7	11032.7	2426.5	812.2	705.2	631.7	571.5	534.8	518.0	501.3	501.3
62.5°	15330.8	12787.4	3552.8	812.2	671.8	578.2	518.0	491.3	481.3	464.6	461.2
65°	17319.5	14602.2	4375.0	862.3	661.8	531.4	467.9	441.2	431.1	421.1	417.8
67.5°	18833.5	15645.0	3763.4	996.0	705.2	491.3	417.8	401.1	394.4	384.4	377.7
70°	18993.9	15010.0	2269.4	1076.2	748.7	451.2	374.3	357.6	357.6	347.6	340.9
72.5°	17553.4	13318.8	1527.4	959.2	678.5	404.4	330.9	317.5	310.8	304.1	300.8
75°	14689.1	11296.8	1206.5	765.4	521.4	334.2	287.4	274.1	264.0	260.7	254.0
77.5°	9866.3	7342.9	892.4	598.3	384.4	270.7	240.6	227.3	217.2	213.9	203.9
80°	3790.1	2797.5	574.9	434.5	270.7	213.9	190.5	177.1	170.5	160.4	153.7
82.5°	1116.3	905.7	320.9	267.4	173.8	147.1	137.0	127.0	117.0	107.0	103.6
85°	461.2	414.4	197.2	140.4	107.0	86.9	80.2	70.2	60.2	53.5	46.8
87.5°	213.9	177.1	90.2	53.5	36.8	20.1	10.0	3.3	0.0	0.0	0.0
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)