

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: P476872

Luminaire Tested: **IFLD-S-SA3D-727-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476872
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-727-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (48) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

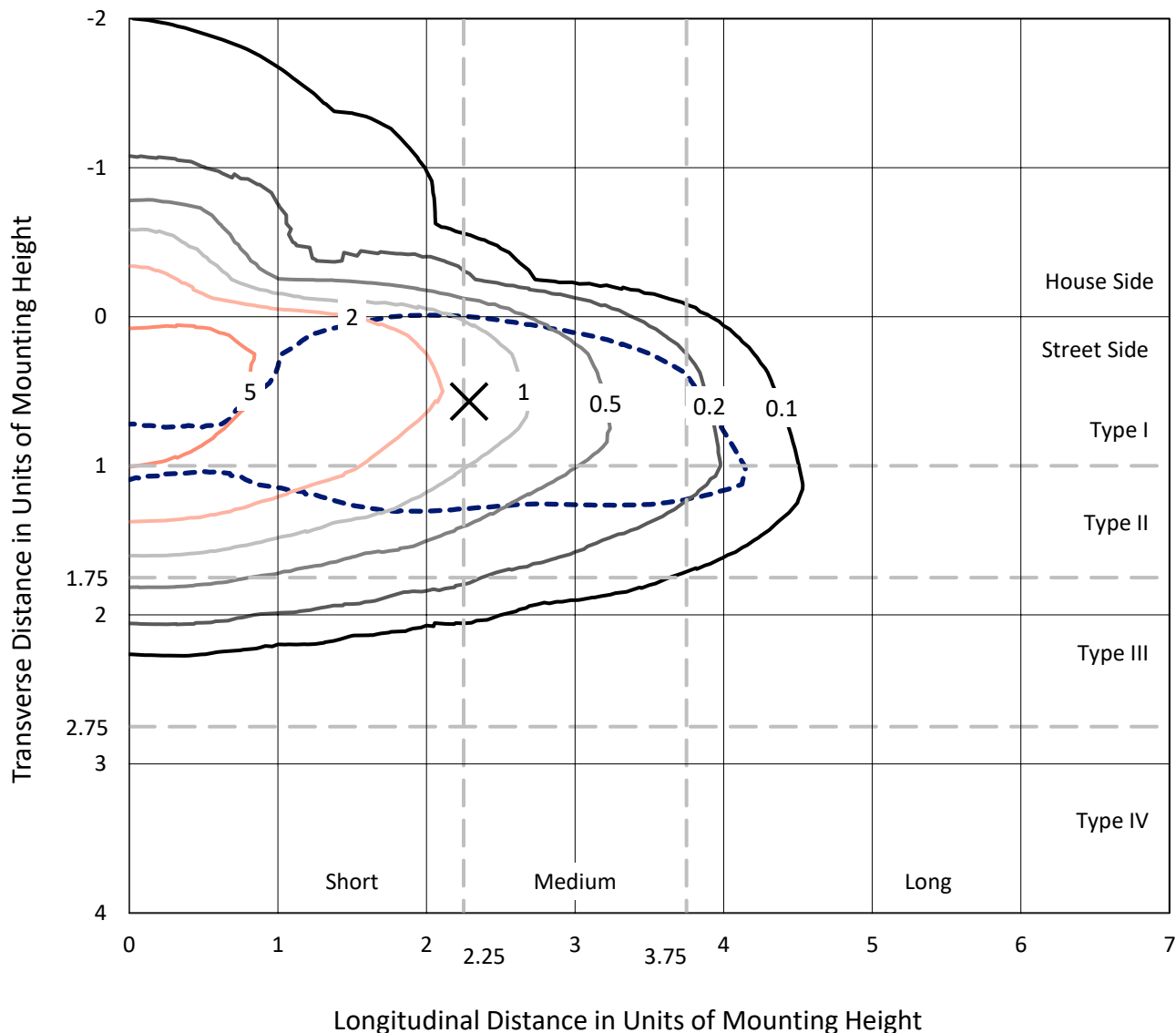
Lumens per Lamp: N/A
Luminaire Lumens: 19601.2 lumens
Efficiency: N/A
Efficacy: 106.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 184.1
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

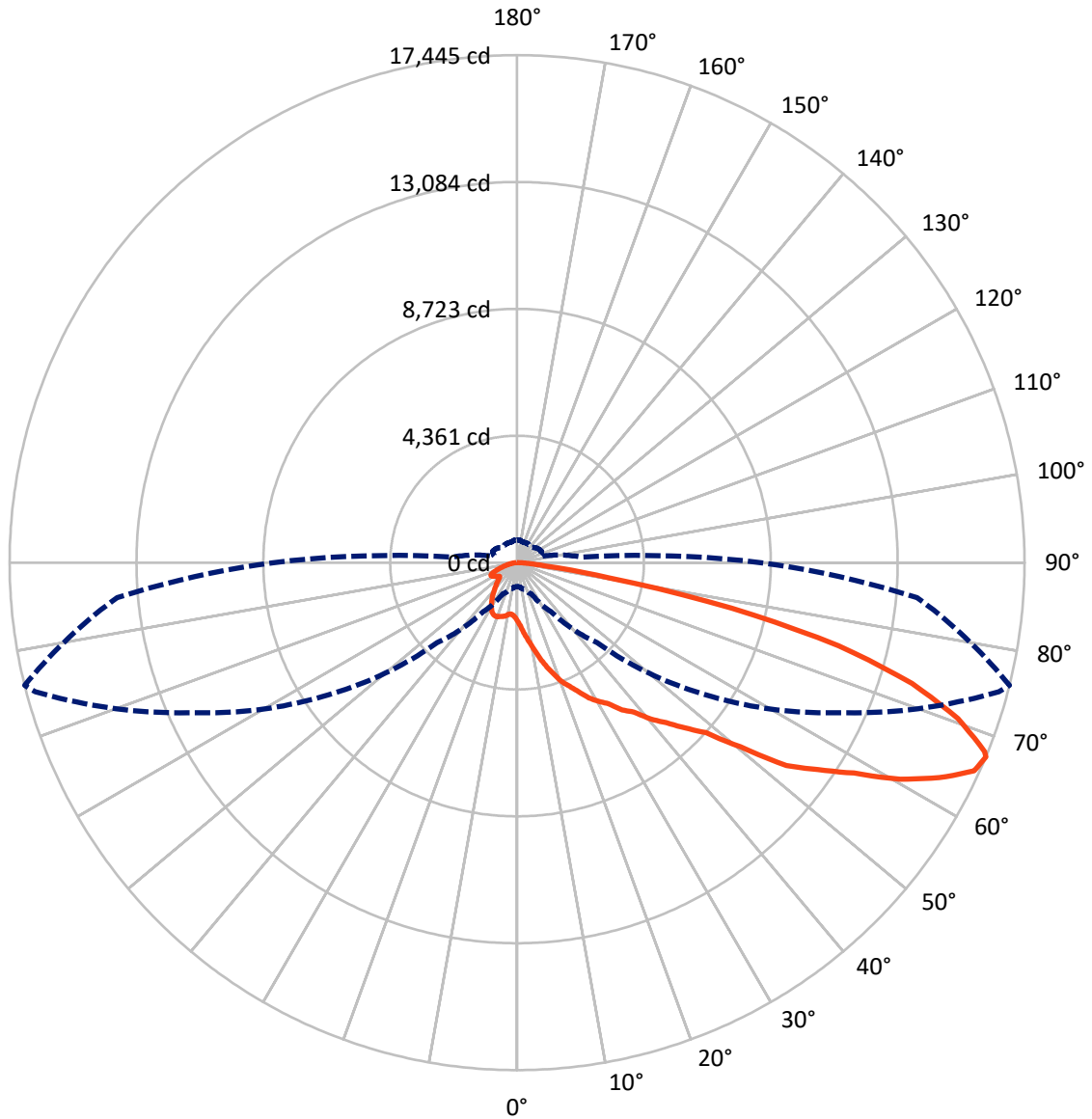
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 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
House Side	Lumens	2788.5	0.0	2788.5
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	16812.7	0.0	16812.7
	% Fixture	85.8	0.0	85.8
Total	Lumens	19601.2	0.0	19601.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.4	1.2
10°-20°	871.4	4.4
20°-30°	1620.1	8.3
30°-40°	2568.3	13.1
40°-50°	3552.2	18.1
50°-60°	4369.4	22.3
60°-70°	4065.9	20.7
70°-80°	2040.2	10.4
80°-90°	281.3	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°	19601.2	100.0
0°-180°	19601.2	100.0

Coefficient of Utilization



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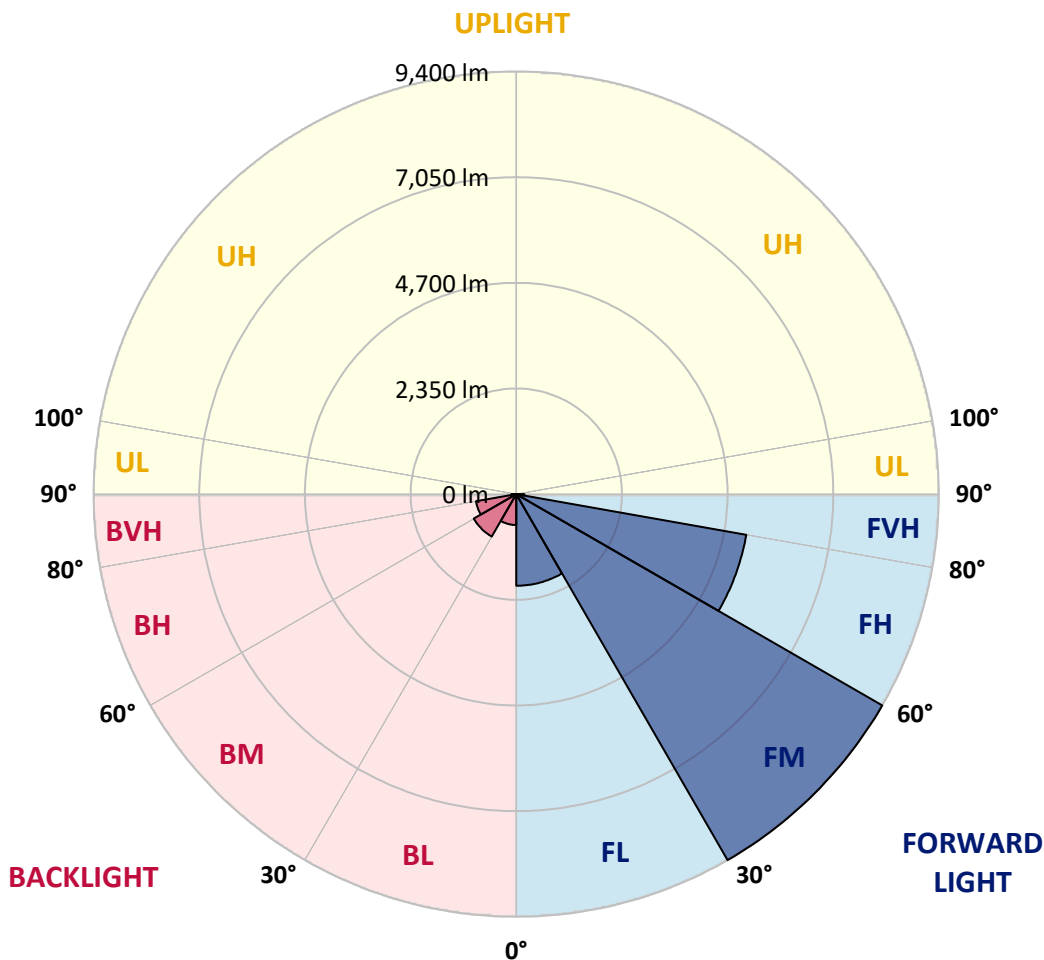
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2037.2	10.4			
FM (30°-60°)	9400.1	48.0			
FH (60°-80°)	5196.1	26.5			G3/7500
FVH (80°-90°)	179.2	0.9			G2/225
BL (0°-30°)	686.7	3.5	B2/1000		
BM (30°-60°)	1089.7	5.6	B2/2500		
BH (60°-80°)	910.0	4.6	B2/1000		G2/1000
BVH (80°-90°)	102.1	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°	2005.9	2005.9	2005.9	2005.9	2005.9	2005.9	2005.9	2005.9	2005.9	2005.9	2005.9
2.5°	2783.2	2749.7	2716.2	2644.7	2620.2	2553.1	2430.3	2294.0	2182.3	2166.7	2088.5
5°	3453.3	3404.2	3393.0	3352.8	3225.5	3095.9	2894.9	2676.0	2403.5	2423.6	2155.5
7.5°	3955.9	3926.9	3866.6	3828.6	3752.7	3580.7	3372.9	3082.5	2736.3	2669.3	2305.2
10°	4335.7	4295.4	4293.2	4259.7	4219.5	4043.0	3884.4	3493.5	3049.0	2957.4	2488.4
12.5°	4527.8	4521.1	4639.4	4639.4	4623.8	4550.1	4277.6	3920.2	3346.1	3314.8	2700.6
15°	4735.5	4679.6	4782.4	4860.6	4900.8	4938.8	4713.2	4335.7	3725.8	3665.5	2928.4
17.5°	4735.5	4731.0	4833.8	4963.3	5173.3	5222.4	5099.6	4717.6	4040.8	3996.1	3178.6
20°	4655.1	4719.9	4791.3	4965.6	5193.4	5392.2	5427.9	5108.5	4389.3	4353.5	3462.3
22.5°	5030.3	4967.8	5041.5	5108.5	5285.0	5586.5	5684.8	5452.5	4755.6	4619.3	3719.1
25°	5660.3	5617.8	5564.2	5465.9	5539.6	5671.4	5821.1	5707.2	5068.3	4916.4	3967.1
27.5°	6274.5	6276.8	6160.6	5946.2	5787.6	5814.4	5990.8	5930.5	5331.9	5264.9	4136.9
30°	7147.9	7094.3	6964.7	6674.4	6363.9	6109.2	6080.2	6138.3	5667.0	5537.4	4380.3
32.5°	7802.4	7813.6	7630.4	7212.7	6788.3	6580.5	6325.9	6350.5	5879.2	5783.1	4574.7
35°	8331.8	8318.4	8188.8	7842.6	7340.0	7089.8	6745.8	6605.1	6372.8	6220.9	4871.7
37.5°	8903.6	8794.2	8584.2	8193.3	7871.6	7525.4	7190.4	6873.2	6701.2	6518.0	5126.4
40°	9133.7	9133.7	8852.2	8673.5	8291.6	8030.2	7813.6	7226.1	7101.0	7065.3	5452.5
42.5°	8970.6	9071.1	8955.0	8751.7	8595.4	8264.8	8206.7	7592.4	7594.7	7523.2	5843.4
45°	8955.0	8816.5	8720.5	8771.8	8698.1	8680.2	8827.7	8099.5	8112.9	8103.9	6368.3
47.5°	8506.0	8443.5	8586.4	8671.3	8731.6	9008.6	9433.0	8704.8	8800.9	8733.9	6973.7
50°	8059.3	8048.1	8137.5	8445.7	8707.1	9162.7	10009.3	9638.5	9953.5	9949.0	8070.4
52.5°	6835.2	6953.6	7304.3	7956.5	8602.1	9372.7	10444.9	10831.3	11432.2	11595.3	8979.6
55°	5664.7	5602.2	6120.4	7067.5	8144.2	9455.3	10931.8	11548.3	12432.9	12551.3	9913.3
57.5°	4407.1	4523.3	4932.1	5841.2	7197.1	9046.6	11289.2	12256.4	13563.2	13654.7	10996.6
60°	3288.0	3303.7	3752.7	4485.3	5937.2	8124.0	11405.4	12982.4	14858.7	15120.1	12131.3
62.5°	2068.4	2162.2	2504.0	3225.5	4469.7	6833.0	10884.9	13422.4	16216.8	16286.1	13275.0
65°	1114.6	1174.9	1431.8	1885.3	3122.7	5168.8	9504.5	13158.9	16855.7	17266.7	13784.3
67°	824.2	835.4	953.8	1204.0	2088.5	3891.1	7925.2	12205.1	17146.1	17445.4	13804.4
67.5°	772.9	788.5	882.3	1081.1	1851.8	3582.9	7512.0	11865.5	17016.5	17338.2	13648.0
70°	661.2	665.6	688.0	743.8	1038.7	2155.5	5115.2	9723.4	15772.3	16080.6	12551.3
72.5°	587.5	591.9	600.9	612.0	703.6	1246.4	3111.6	7483.0	13708.4	14199.8	10829.1
75°	516.0	531.6	536.1	527.2	598.6	810.8	1655.2	5499.4	11182.0	11421.0	8421.1
77.5°	437.8	444.5	453.4	462.4	533.9	605.3	795.2	3712.4	7675.1	7529.9	4554.6
80°	368.6	370.8	377.5	384.2	462.4	462.4	451.2	2005.9	3352.8	3205.4	1539.0
82.5°	263.6	279.2	294.9	312.7	384.2	310.5	294.9	893.5	1061.0	1009.6	520.5
85°	102.8	125.1	194.3	214.4	243.5	167.5	196.6	386.4	442.3	437.8	194.3
87.5°	17.9	20.1	53.6	82.6	89.3	58.1	93.8	138.5	165.3	178.7	71.5
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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2005.9	2005.9	2005.9	2005.9	2005.9	2005.9	2005.9	2005.9	2005.9	2005.9	2005.9
2.5°	2023.8	1954.5	1871.9	1789.2	1735.6	1650.7	1644.0	1592.6	1585.9	1568.1	1577.0
5°	2039.4	1956.7	1789.2	1657.4	1597.1	1548.0	1559.1	1536.8	1530.1	1518.9	1501.1
7.5°	2162.2	1999.2	1749.0	1635.1	1590.4	1568.1	1568.1	1541.3	1521.2	1534.6	1548.0
10°	2242.7	2019.3	1780.3	1666.4	1630.6	1581.5	1599.3	1565.8	1577.0	1550.2	1550.2
12.5°	2372.2	2133.2	1845.1	1713.3	1655.2	1610.5	1628.4	1590.4	1581.5	1583.7	1577.0
15°	2546.4	2209.2	1874.1	1740.1	1699.9	1644.0	1630.6	1597.1	1563.6	1552.4	1565.8
17.5°	2709.5	2303.0	1894.2	1755.7	1690.9	1628.4	1612.7	1570.3	1559.1	1525.6	1498.8
20°	2903.8	2414.7	1921.0	1769.1	1657.4	1594.9	1554.7	1512.2	1474.3	1454.2	1463.1
22.5°	3033.4	2472.7	1934.4	1742.3	1608.3	1550.2	1465.3	1436.3	1382.7	1360.3	1342.5
25°	3245.6	2544.2	1900.9	1668.6	1521.2	1427.3	1351.4	1311.2	1273.2	1244.2	1235.2
27.5°	3299.2	2597.8	1822.7	1543.5	1382.7	1284.4	1219.6	1170.5	1145.9	1101.2	1092.3
30°	3455.6	2544.2	1706.6	1391.6	1250.9	1150.4	1085.6	1049.8	991.8	980.6	956.0
32.5°	3556.1	2559.8	1559.1	1244.2	1099.0	1009.6	967.2	931.5	915.8	862.2	848.8
35°	3723.6	2506.2	1409.5	1107.9	973.9	904.7	868.9	857.7	806.4	781.8	759.5
37.5°	3830.8	2475.0	1259.8	953.8	837.6	808.6	819.8	772.9	710.3	663.4	647.8
40°	4018.5	2463.8	1090.1	826.5	743.8	737.1	772.9	683.5	569.6	529.4	507.1
42.5°	4288.7	2387.8	958.3	712.6	670.1	699.2	705.9	569.6	504.8	471.3	455.7
45°	4547.9	2403.5	828.7	589.7	583.0	625.4	609.8	482.5	444.5	419.9	433.3
47.5°	5046.0	2481.7	701.4	491.4	524.9	565.1	473.5	431.1	395.4	377.5	379.7
50°	5816.6	2557.6	589.7	449.0	495.9	511.5	406.5	390.9	388.7	352.9	350.7
52.5°	6279.0	2528.6	569.6	502.6	531.6	511.5	442.3	431.1	413.2	397.6	379.7
55°	7013.9	2613.5	612.0	587.5	603.1	491.4	495.9	491.4	478.0	437.8	449.0
57.5°	7599.1	2669.3	667.9	656.7	647.8	511.5	518.2	520.5	511.5	493.7	509.3
60°	8403.3	2781.0	726.0	728.2	730.4	556.2	567.4	580.8	578.5	571.8	576.3
62.5°	8896.9	2729.6	790.7	826.5	815.3	647.8	645.5	654.5	654.5	665.6	672.4
65°	8823.2	2539.7	824.2	913.6	855.5	714.8	714.8	719.3	721.5	743.8	746.1
67°	8380.9	2200.2	806.4	927.0	855.5	741.6	741.6	746.1	730.4	788.5	770.6
67.5°	8175.4	2099.7	790.7	915.8	848.8	739.4	739.4	741.6	728.2	784.0	766.2
70°	7109.9	1559.1	681.3	810.8	786.3	719.3	719.3	705.9	694.7	768.4	752.8
72.5°	6069.0	1132.5	547.3	690.2	710.3	692.5	696.9	663.4	632.1	683.5	670.1
75°	4648.4	833.2	426.6	531.6	600.9	647.8	676.8	591.9	551.7	565.1	540.6
77.5°	2593.4	542.8	337.3	393.1	457.9	603.1	650.0	533.9	451.2	435.6	435.6
80°	880.1	317.2	247.9	292.6	315.0	533.9	607.6	433.3	355.2	339.5	328.4
82.5°	332.8	194.3	169.8	201.0	201.0	422.2	495.9	332.8	268.0	346.2	352.9
85°	151.9	116.2	111.7	116.2	116.2	259.1	350.7	216.7	241.2	207.7	183.2
87.5°	60.3	55.8	51.4	49.1	40.2	44.7	120.6	58.1	109.5	29.0	26.8
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)