

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: P480788

Luminaire Tested: **IFLD-S-SA6E-727-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480788
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6E-727-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (96) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

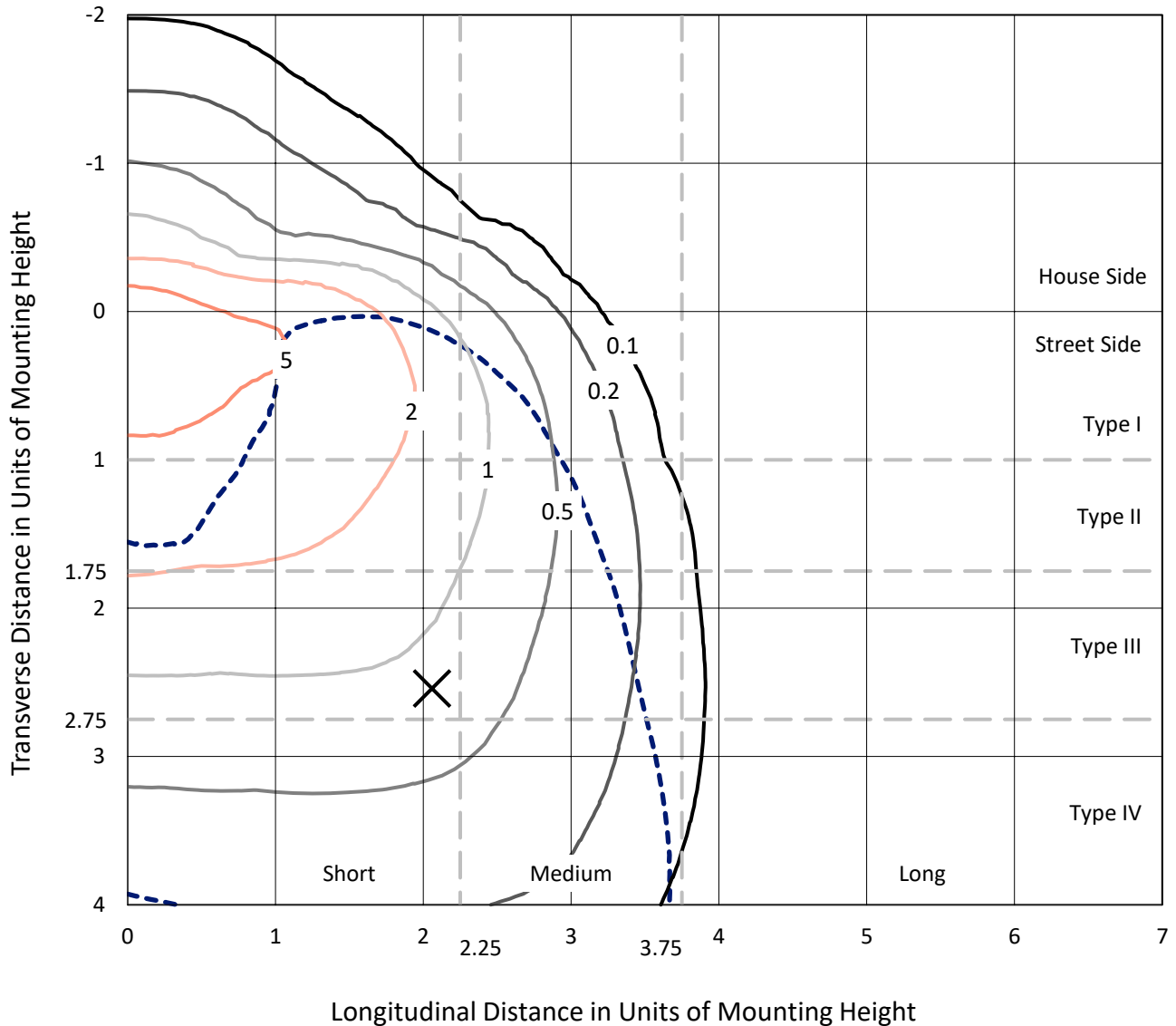
Lumens per Lamp: N/A
Luminaire Lumens: 42803.2 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 464.2
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

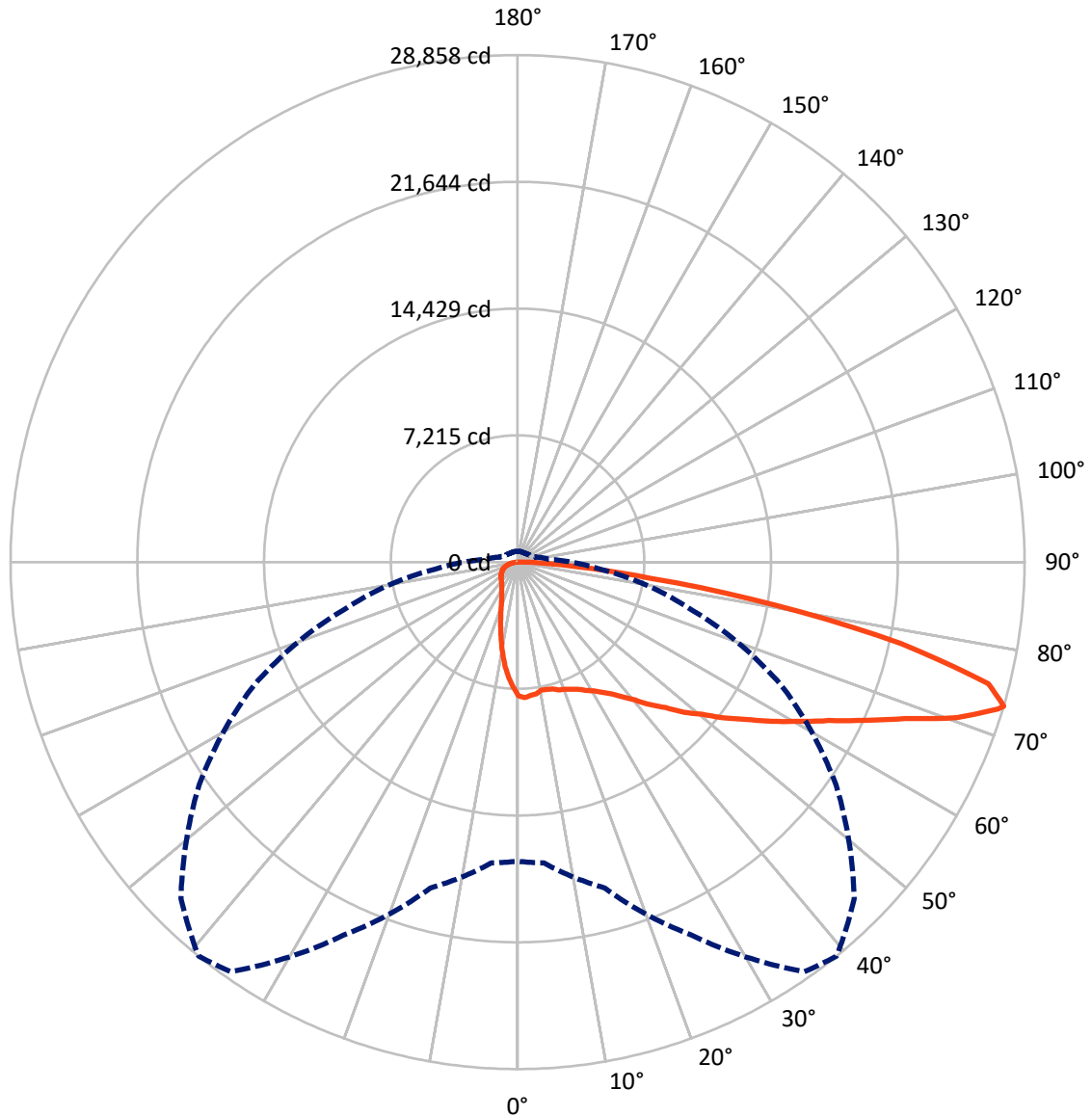
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6016.9	0.0	6016.9
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	36786.3	0.0	36786.3
	% Fixture	85.9	0.0	85.9
Total	Lumens	42803.2	0.0	42803.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	661.4	1.5
10°-20°	1681.4	3.9
20°-30°	2569.4	6.0
30°-40°	3746.2	8.8
40°-50°	5660.9	13.2
50°-60°	8197.3	19.2
60°-70°	10415.1	24.3
70°-80°	8443.0	19.7
80°-90°	1428.5	3.3
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°	42803.2	100.0
0°-180°	42803.2	100.0

Coefficient of Utilization



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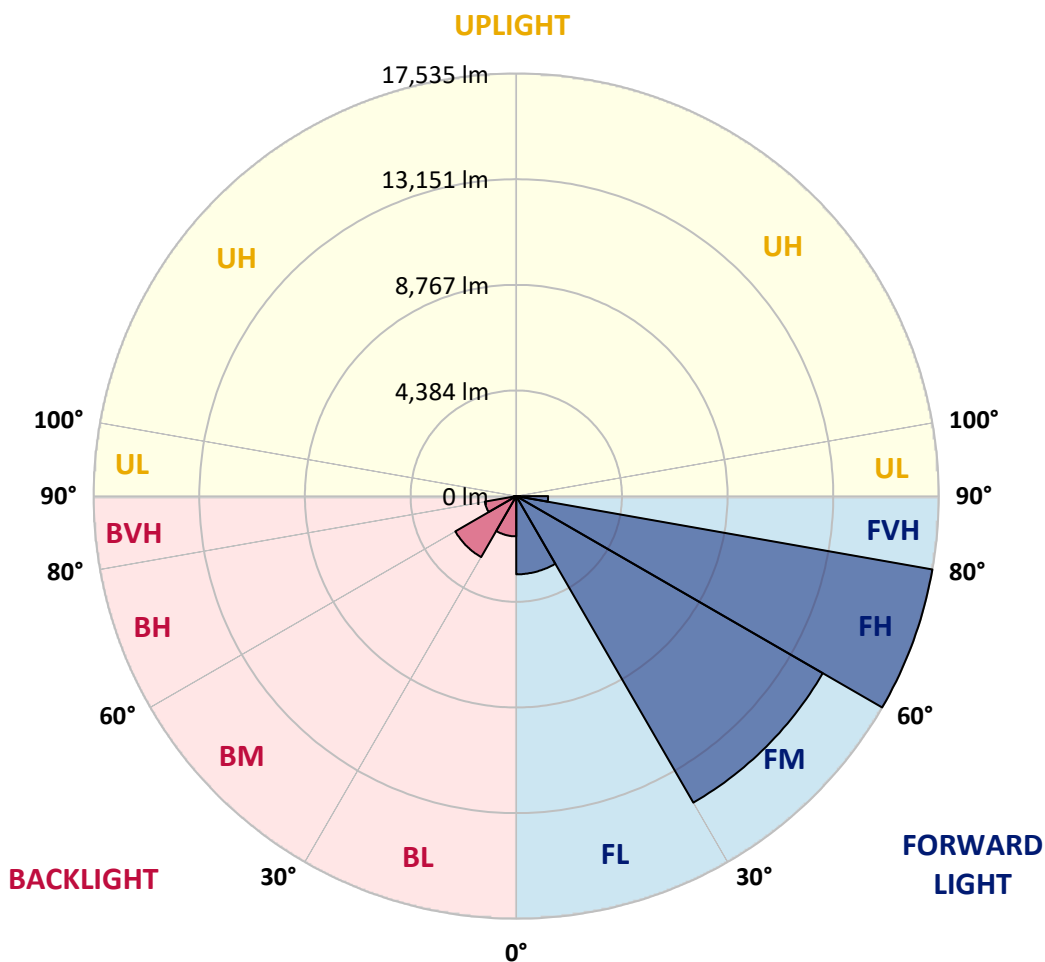
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3243.5	7.6			
FM (30°-60°)	14684.3	34.3			
FH (60°-80°)	17534.8	41.0			G5
FVH (80°-90°)	1323.7	3.1			G5
BL (0°-30°)	1668.6	3.9	B3/2500		
BM (30°-60°)	2920.2	6.8	B3/5000		
BH (60°-80°)	1323.3	3.1	B3/2500		G3/2500
BVH (80°-90°)	104.8	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	7619.2	7619.2	7619.2	7619.2	7619.2	7619.2	7619.2	7619.2	7619.2	7619.2	7619.2
2.5°	7801.2	7719.8	7734.2	7705.4	7734.2	7724.6	7710.2	7638.4	7710.2	7638.4	7619.2
5°	7695.9	7695.9	7743.7	7671.9	7681.5	7633.6	7681.5	7628.8	7580.9	7461.2	7427.7
7.5°	7662.3	7657.5	7662.3	7561.8	7609.7	7580.9	7533.0	7475.6	7379.8	7303.2	7193.0
10°	7432.5	7480.4	7427.7	7456.4	7494.7	7408.5	7403.7	7389.4	7346.3	7245.7	7178.6
12.5°	7308.0	7389.4	7418.1	7394.2	7427.7	7437.3	7408.5	7389.4	7336.7	7269.6	7078.1
15°	7360.6	7264.9	7346.3	7504.3	7470.8	7494.7	7499.5	7480.4	7456.4	7331.9	7207.4
17.5°	7375.0	7317.5	7489.9	7523.5	7566.6	7652.8	7595.3	7590.5	7499.5	7413.3	7231.3
20°	7408.5	7384.6	7523.5	7700.6	7705.4	7719.8	7748.5	7676.7	7628.8	7480.4	7202.6
22.5°	7533.0	7614.4	7743.7	7820.4	7863.5	7873.0	7873.0	7729.4	7676.7	7557.0	7336.7
25°	7906.6	7820.4	8002.4	8093.3	8031.1	8016.7	7983.2	7853.9	7796.4	7691.1	7398.9
27.5°	8179.5	8174.8	8280.1	8404.6	8237.0	8270.5	8150.8	8112.5	7983.2	7925.7	7509.1
30°	8553.1	8658.4	8653.6	8692.0	8471.7	8510.0	8356.7	8284.9	8213.1	8246.6	7834.7
32.5°	9032.0	8993.7	9055.9	9027.2	8806.9	8840.4	8658.4	8548.3	8572.2	8672.8	8280.1
35°	9338.5	9300.2	9324.1	9324.1	9257.1	9218.7	9142.1	8998.5	9113.4	9300.2	8778.2
37.5°	9668.9	9716.8	9855.7	9826.9	9740.7	9740.7	9731.2	9630.6	9779.1	10238.8	9573.1
40°	9961.0	10090.3	10176.5	10234.0	10334.6	10334.6	10416.0	10358.5	10626.7	11364.2	10545.3
42.5°	10267.5	10272.3	10741.6	10784.7	11009.8	11105.6	11167.9	11215.7	11718.6	12542.3	11584.5
45°	10660.2	10684.2	11096.0	11426.5	11776.1	11809.6	12044.2	12202.3	12820.0	13830.5	12714.7
47.5°	11177.4	11148.7	11589.3	12116.1	12551.9	12781.7	13064.3	13236.7	13998.1	15228.9	13950.2
50°	11857.5	11771.3	12025.1	12853.6	13366.0	13619.8	14122.6	14410.0	15300.7	16565.0	14797.9
52.5°	12686.0	12542.3	12743.4	13648.5	14223.2	14735.6	15214.5	15535.4	16464.4	17599.4	15425.2
55°	13562.3	13265.4	13322.9	14491.4	15319.9	15803.6	16459.7	16794.9	17743.1	18528.5	16052.6
57.5°	14429.1	14242.4	14127.4	15300.7	16627.3	17091.8	17695.2	18131.0	18935.5	19352.2	16584.2
60°	15157.1	15109.2	14922.4	16555.4	18011.3	18408.8	19040.9	19309.1	19917.3	20113.6	16593.7
62.5°	15755.7	15592.9	15889.8	17565.9	19419.2	19869.4	20563.8	20587.7	21018.7	20587.7	16105.3
65°	16225.0	16234.6	16708.7	18787.1	21047.5	21713.1	22273.4	22211.2	21933.4	20305.2	14951.1
67.5°	16651.2	16833.2	17527.6	20128.0	23140.2	23767.6	24390.2	23566.5	22182.5	18983.4	12695.5
70°	16986.4	17168.4	18633.8	21761.0	25606.6	26526.0	26664.9	24102.8	21037.9	16081.3	9577.9
72.5°	16948.1	17278.6	19261.2	23063.6	27795.1	28590.1	27469.5	22594.3	17527.6	11211.0	5588.7
73°	17029.5	17192.4	19208.5	23427.6	28460.8	28858.3	27095.9	22120.2	16531.5	10056.8	4726.7
75°	15458.8	16009.5	18255.5	22833.8	27747.2	27675.4	24950.5	18432.7	11752.1	5282.2	2289.1
77.5°	11436.0	11785.6	14386.0	18777.5	22776.3	22316.5	18820.6	11780.8	5579.1	1958.7	1235.6
80°	5588.7	5861.7	7624.0	10842.2	14893.7	14932.0	11680.3	6129.9	2389.7	1106.2	842.9
82.5°	2792.0	2954.8	3663.6	4765.0	7327.1	7676.7	5923.9	3486.4	1479.8	627.4	478.9
85°	1824.6	1939.5	2255.6	2332.2	3108.0	3280.4	2758.4	2720.1	962.6	340.0	387.9
87.5°	1211.6	1230.8	1384.0	1178.1	1245.1	1197.2	1331.3	1714.4	282.5	143.7	105.4
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°	7619.2	7619.2	7619.2	7619.2	7619.2	7619.2	7619.2	7619.2	7619.2	7619.2	7619.2
2.5°	7595.3	7528.2	7456.4	7355.8	7284.0	7173.9	7073.3	7030.2	7020.6	7025.4	6977.5
5°	7398.9	7303.2	7159.5	6953.6	6833.8	6651.9	6498.6	6417.2	6331.0	6345.4	6307.1
7.5°	7126.0	7020.6	6800.3	6560.9	6264.0	6005.4	5861.7	5660.5	5545.6	5459.4	5507.3
10°	7039.8	6857.8	6527.4	6196.9	5737.2	5397.2	5066.7	4836.8	4678.8	4525.6	4592.6
12.5°	6996.7	6814.7	6354.9	5866.5	5272.6	4755.4	4290.9	4008.4	3783.3	3649.2	3701.9
15°	6958.4	6733.3	6192.1	5502.5	4836.8	4156.8	3634.8	3261.3	3045.8	2916.5	2930.8
17.5°	7011.0	6690.2	5952.7	5148.1	4358.0	3630.0	3050.6	2662.7	2442.4	2361.0	2341.8
20°	6958.4	6642.3	5718.0	4793.7	3879.1	3127.2	2571.7	2250.8	2097.6	2030.5	2016.2
22.5°	6977.5	6527.4	5473.8	4401.1	3433.7	2705.8	2250.8	2006.6	1886.8	1853.3	1862.9
25°	7068.5	6460.3	5229.5	3970.0	2993.1	2394.5	2044.9	1858.1	1771.9	1738.4	1748.0
27.5°	7135.5	6517.8	5009.3	3563.0	2619.6	2116.7	1872.5	1748.0	1690.5	1666.6	1661.8
30°	7303.2	6551.3	4793.7	3199.0	2313.1	1934.7	1752.8	1652.2	1613.9	1599.5	1594.7
32.5°	7552.2	6613.6	4544.7	2863.8	2088.0	1762.3	1657.0	1570.8	1561.2	1546.8	1551.6
35°	7959.2	6829.1	4267.0	2576.5	1872.5	1647.4	1556.4	1498.9	1498.9	1498.9	1513.3
37.5°	8543.5	7130.8	4017.9	2303.5	1733.6	1546.8	1470.2	1451.1	1441.5	1455.8	1465.4
40°	9295.4	7494.7	3816.8	2088.0	1613.9	1479.8	1412.7	1403.2	1398.4	1393.6	1403.2
42.5°	10119.1	7959.2	3644.4	1920.4	1527.7	1408.0	1360.1	1350.5	1331.3	1340.9	1355.3
45°	10938.0	8533.9	3491.2	1786.3	1470.2	1369.6	1302.6	1297.8	1288.2	1283.4	1307.4
47.5°	11847.9	9099.0	3443.3	1704.9	1427.1	1312.2	1264.3	1259.5	1230.8	1226.0	1245.1
50°	12556.7	9515.7	3495.9	1666.6	1364.9	1269.1	1235.6	1211.6	1187.7	1163.7	1163.7
52.5°	13045.1	9803.0	3534.3	1637.8	1331.3	1211.6	1168.5	1158.9	1135.0	1111.0	1101.5
55°	13485.7	9975.4	3543.8	1642.6	1297.8	1144.6	1115.8	1111.0	1096.7	1058.4	1048.8
57.5°	13634.2	9903.6	3352.3	1599.5	1278.7	1101.5	1063.1	1072.7	1053.6	1020.0	1015.3
60°	13619.8	9405.5	2916.5	1542.0	1235.6	1053.6	1005.7	1034.4	1034.4	996.1	991.3
62.5°	12791.3	8256.2	2384.9	1431.9	1187.7	1005.7	953.0	996.1	1010.5	986.5	981.7
65°	11072.1	6723.7	1992.2	1321.8	1115.8	953.0	900.3	948.2	972.2	962.6	957.8
67.5°	9161.3	5143.3	1657.0	1178.1	1024.8	881.2	838.1	871.6	886.0	890.7	895.5
70°	6474.7	3424.1	1384.0	1020.0	900.3	804.5	756.7	761.4	756.7	771.0	771.0
72.5°	3519.9	1973.1	1125.4	866.8	775.8	699.2	665.7	641.7	641.7	636.9	636.9
73°	3012.3	1771.9	1072.7	842.9	742.3	680.0	641.7	622.6	622.6	617.8	613.0
75°	1690.5	1297.8	919.5	723.1	641.7	593.8	565.1	536.4	531.6	531.6	531.6
77.5°	1111.0	1010.5	732.7	579.5	517.2	474.1	464.5	435.8	435.8	435.8	431.0
80°	833.3	795.0	565.1	440.6	397.5	364.0	354.4	335.2	330.4	311.3	316.1
82.5°	555.5	627.4	411.9	311.3	268.2	249.0	249.0	244.2	229.9	205.9	205.9
85°	440.6	512.4	296.9	191.6	158.0	134.1	138.9	134.1	129.3	105.4	100.6
87.5°	81.4	205.9	86.2	52.7	38.3	23.9	23.9	14.4	9.6	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)