

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: P481021

Luminaire Tested: **IFLD-S-SA6D-827-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481021
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-827-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (96) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

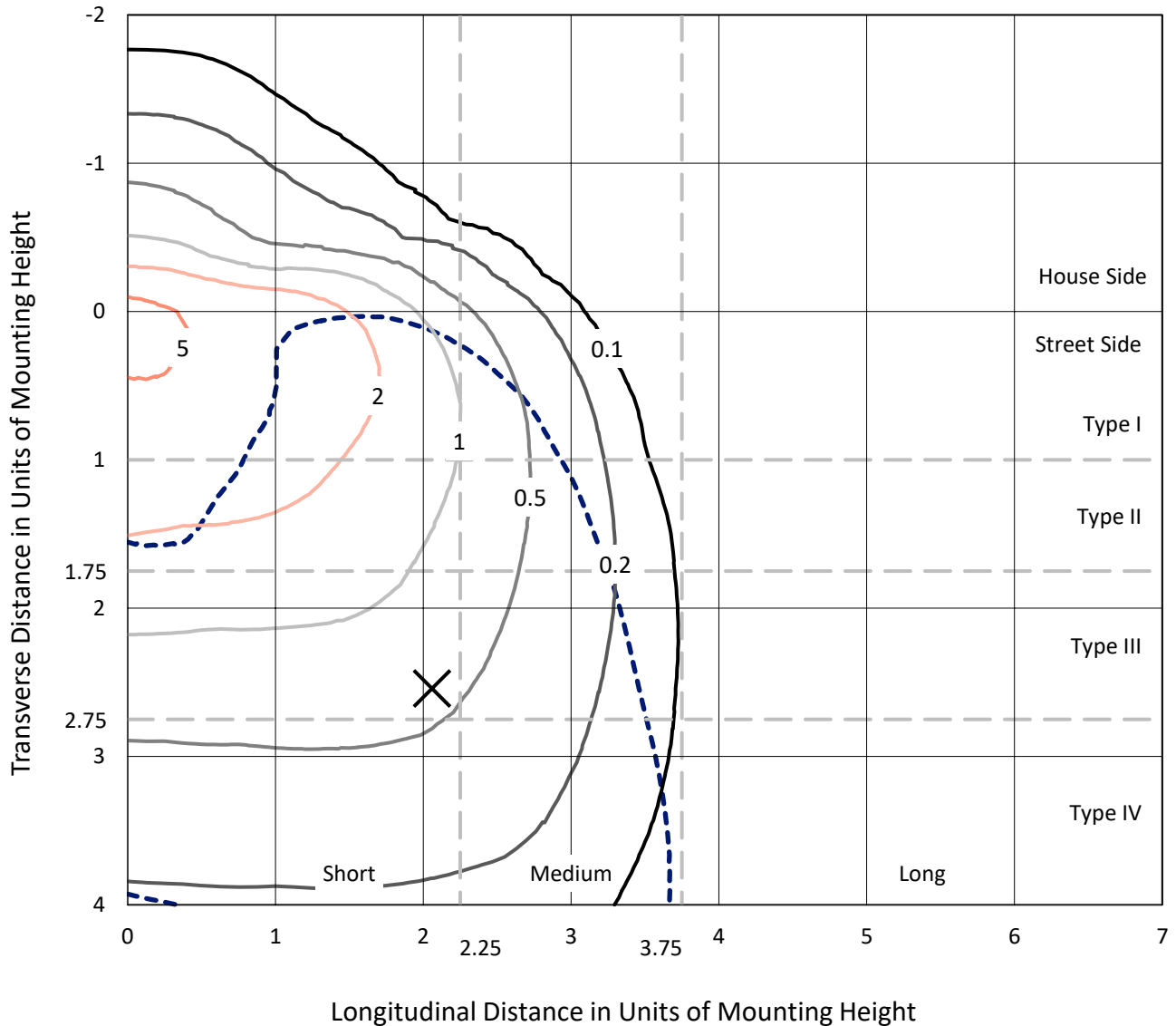
Lumens per Lamp: N/A
Luminaire Lumens: 32510.4 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 368.2
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

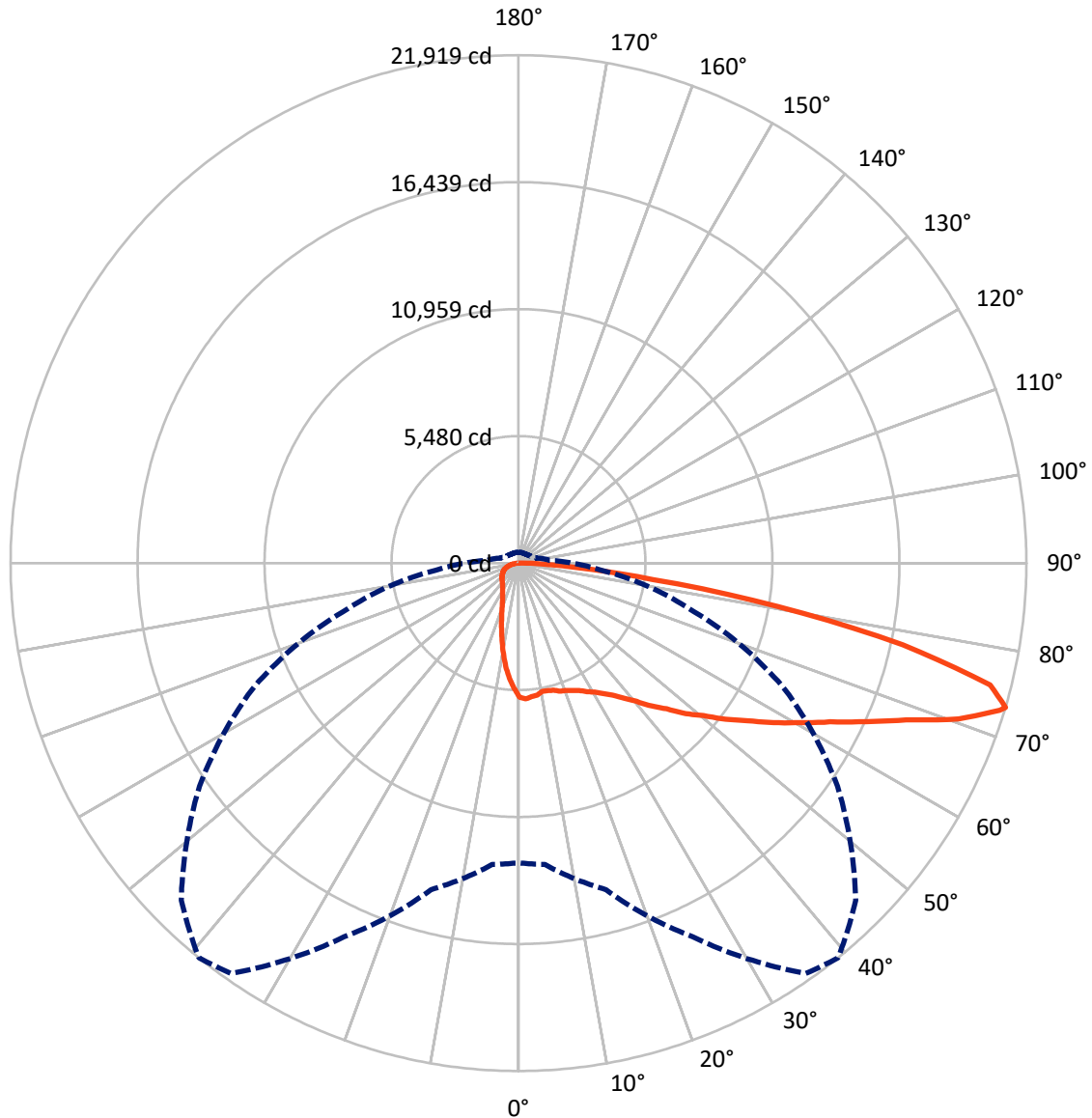
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.4 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	4570.0	0.0	4570.0
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	27940.3	0.0	27940.3
	% Fixture	85.9	0.0	85.9
Total	Lumens	32510.4	0.0	32510.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	502.4	1.5
10°-20°	1277.1	3.9
20°-30°	1951.5	6.0
30°-40°	2845.4	8.8
40°-50°	4299.6	13.2
50°-60°	6226.1	19.2
60°-70°	7910.6	24.3
70°-80°	6412.7	19.7
80°-90°	1085.0	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°	32510.4	100.0
0°-180°	32510.4	100.0

Coefficient of Utilization



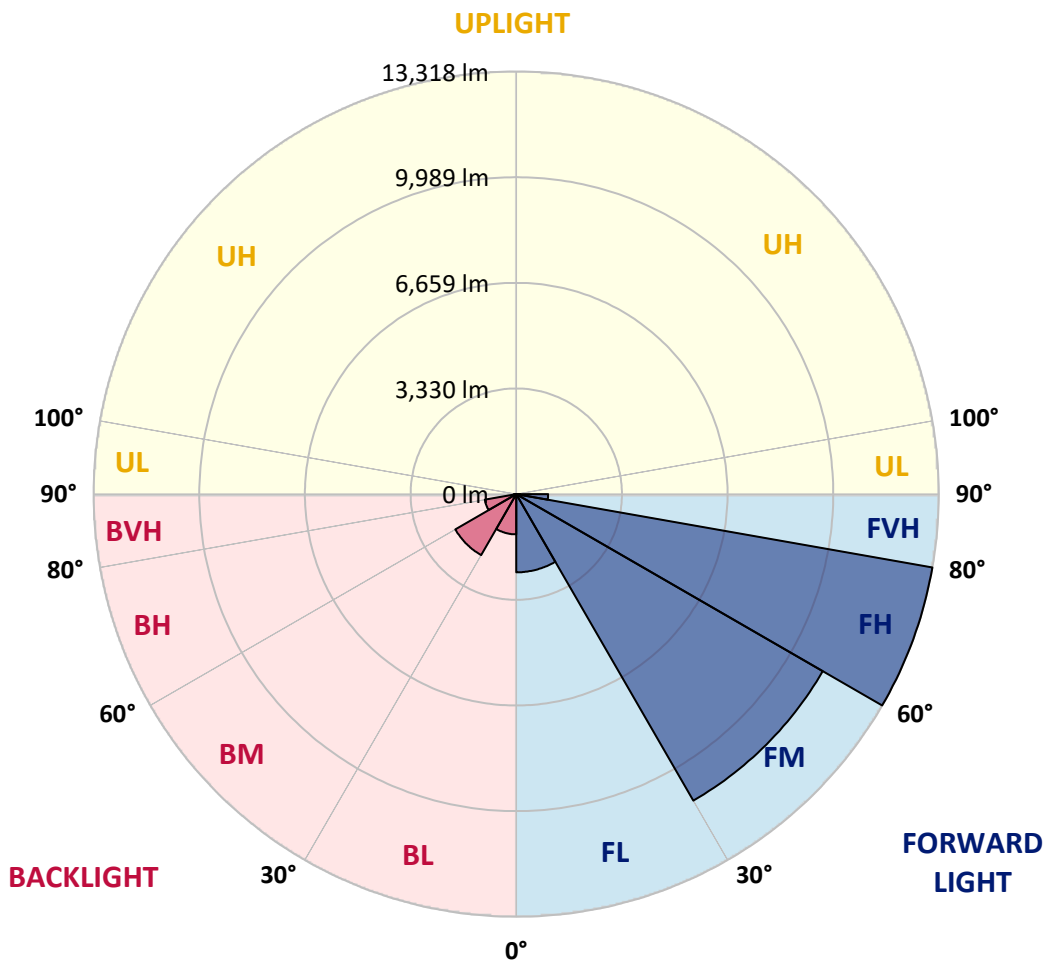
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2463.6	7.6			
FM (30°-60°)	11153.2	34.3			
FH (60°-80°)	13318.2	41.0			G5
FVH (80°-90°)	1005.4	3.1			G5
BL (0°-30°)	1267.4	3.9	B3/2500		
BM (30°-60°)	2218.0	6.8	B2/2500		
BH (60°-80°)	1005.1	3.1	B3/2500		G3/2500
BVH (80°-90°)	79.6	0.2			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	5787.0	5787.0	5787.0	5787.0	5787.0	5787.0	5787.0	5787.0	5787.0	5787.0	5787.0
2.5°	5925.3	5863.4	5874.3	5852.5	5874.3	5867.1	5856.2	5801.6	5856.2	5801.6	5787.0
5°	5845.2	5845.2	5881.6	5827.1	5834.3	5798.0	5834.3	5794.3	5757.9	5667.0	5641.6
7.5°	5819.8	5816.1	5819.8	5743.4	5779.8	5757.9	5721.6	5677.9	5605.2	5547.0	5463.3
10°	5645.2	5681.6	5641.6	5663.4	5692.5	5627.0	5623.4	5612.5	5579.7	5503.3	5452.4
12.5°	5550.6	5612.5	5634.3	5616.1	5641.6	5648.8	5627.0	5612.5	5572.4	5521.5	5376.0
15°	5590.6	5517.9	5579.7	5699.8	5674.3	5692.5	5696.1	5681.6	5663.4	5568.8	5474.2
17.5°	5601.5	5557.9	5688.8	5714.3	5747.0	5812.5	5768.9	5765.2	5696.1	5630.6	5492.4
20°	5627.0	5608.8	5714.3	5848.9	5852.5	5863.4	5885.3	5830.7	5794.3	5681.6	5470.6
22.5°	5721.6	5783.4	5881.6	5939.8	5972.6	5979.8	5979.8	5870.7	5830.7	5739.8	5572.4
25°	6005.3	5939.8	6078.0	6147.1	6099.9	6089.0	6063.5	5965.3	5921.6	5841.6	5619.7
27.5°	6212.6	6209.0	6289.0	6383.6	6256.3	6281.7	6190.8	6161.7	6063.5	6019.8	5703.4
30°	6496.3	6576.4	6572.7	6601.8	6434.5	6463.6	6347.2	6292.6	6238.1	6263.5	5950.7
32.5°	6860.1	6831.0	6878.3	6856.4	6689.1	6714.6	6576.4	6492.7	6510.9	6587.3	6289.0
35°	7092.9	7063.8	7082.0	7082.0	7031.0	7001.9	6943.7	6834.6	6921.9	7063.8	6667.3
37.5°	7343.8	7380.2	7485.7	7463.9	7398.4	7398.4	7391.1	7314.7	7427.5	7776.7	7271.1
40°	7565.7	7663.9	7729.4	7773.1	7849.4	7849.4	7911.3	7867.6	8071.3	8631.5	8009.5
42.5°	7798.5	7802.1	8158.6	8191.3	8362.3	8435.1	8482.3	8518.7	8900.6	9526.3	8798.8
45°	8096.8	8115.0	8427.8	8678.8	8944.3	8969.7	9148.0	9268.0	9737.2	10504.7	9657.2
47.5°	8489.6	8467.8	8802.4	9202.5	9533.5	9708.1	9922.7	10053.7	10632.0	11566.8	10595.6
50°	9006.1	8940.6	9133.4	9762.7	10151.9	10344.7	10726.6	10944.8	11621.4	12581.6	11239.5
52.5°	9635.4	9526.3	9679.0	10366.5	10803.0	11192.2	11555.9	11799.6	12505.3	13367.3	11716.0
55°	10301.0	10075.5	10119.2	11006.7	11635.9	12003.3	12501.6	12756.2	13476.4	14073.0	12192.4
57.5°	10959.4	10817.5	10730.2	11621.4	12628.9	12981.8	13440.1	13771.1	14382.1	14698.6	12596.2
60°	11512.3	11475.9	11334.0	12574.4	13680.1	13982.0	14462.2	14665.9	15127.8	15276.9	12603.5
62.5°	11966.9	11843.3	12068.8	13341.9	14749.5	15091.4	15618.8	15637.0	15964.4	15637.0	12232.5
65°	12323.4	12330.7	12690.8	14269.4	15986.2	16491.8	16917.4	16870.1	16659.1	15422.4	11355.9
67.5°	12647.1	12785.3	13312.8	15287.8	17575.8	18052.2	18525.1	17899.5	16848.3	14418.5	9642.7
70°	12901.7	13040.0	14153.0	16528.2	19449.0	20147.4	20252.9	18306.9	15978.9	12214.3	7274.7
72.5°	12872.6	13123.6	14629.5	17517.6	21111.3	21715.1	20863.9	17161.1	13312.8	8515.1	4244.8
73°	12934.5	13058.1	14589.5	17794.0	21616.9	21918.8	20580.2	16801.0	12556.2	7638.5	3590.1
75°	11741.4	12159.7	13865.6	17343.0	21074.9	21020.3	18950.7	14000.2	8926.1	4012.0	1738.7
77.5°	8686.0	8951.6	10926.6	14262.1	17299.3	16950.1	14294.8	8947.9	4237.5	1487.7	938.4
80°	4244.8	4452.1	5790.7	8235.0	11312.2	11341.3	8871.5	4655.8	1815.0	840.2	640.2
82.5°	2120.6	2244.3	2782.6	3619.2	5565.2	5830.7	4499.4	2648.0	1123.9	476.5	363.7
85°	1385.8	1473.1	1713.2	1771.4	2360.7	2491.6	2095.1	2066.0	731.1	258.3	294.6
87.5°	920.3	934.8	1051.2	894.8	945.7	909.3	1011.2	1302.2	214.6	109.1	80.0
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°	5787.0	5787.0	5787.0	5787.0	5787.0	5787.0	5787.0	5787.0	5787.0	5787.0	5787.0
2.5°	5768.9	5717.9	5663.4	5587.0	5532.4	5448.8	5372.4	5339.7	5332.4	5336.0	5299.6
5°	5619.7	5547.0	5437.9	5281.5	5190.5	5052.3	4935.9	4874.1	4808.6	4819.5	4790.4
7.5°	5412.4	5332.4	5165.1	4983.2	4757.7	4561.3	4452.1	4299.4	4212.1	4146.6	4183.0
10°	5346.9	5208.7	4957.7	4706.8	4357.6	4099.3	3848.3	3673.7	3553.7	3437.3	3488.2
12.5°	5314.2	5176.0	4826.8	4455.8	4004.7	3611.9	3259.1	3044.5	2873.5	2771.7	2811.7
15°	5285.1	5114.1	4703.1	4179.3	3673.7	3157.2	2760.8	2477.0	2313.4	2215.2	2226.1
17.5°	5325.1	5081.4	4521.2	3910.2	3310.0	2757.1	2317.0	2022.4	1855.1	1793.2	1778.7
20°	5285.1	5045.0	4343.0	3641.0	2946.3	2375.2	1953.3	1709.6	1593.2	1542.2	1531.3
22.5°	5299.6	4957.7	4157.5	3342.7	2608.0	2055.1	1709.6	1524.1	1433.1	1407.7	1414.9
25°	5368.8	4906.8	3972.0	3015.4	2273.4	1818.7	1553.2	1411.3	1345.8	1320.4	1327.6
27.5°	5419.7	4950.5	3804.7	2706.2	1989.6	1607.7	1422.2	1327.6	1284.0	1265.8	1262.2
30°	5547.0	4975.9	3641.0	2429.8	1756.8	1469.5	1331.3	1254.9	1225.8	1214.9	1211.2
32.5°	5736.1	5023.2	3451.9	2175.1	1585.9	1338.6	1258.5	1193.1	1185.8	1174.9	1178.5
35°	6045.3	5186.9	3240.9	1956.9	1422.2	1251.3	1182.1	1138.5	1138.5	1138.5	1149.4
37.5°	6489.1	5416.0	3051.7	1749.6	1316.7	1174.9	1116.7	1102.1	1094.8	1105.8	1113.0
40°	7060.1	5692.5	2899.0	1585.9	1225.8	1123.9	1073.0	1065.7	1062.1	1058.5	1065.7
42.5°	7685.8	6045.3	2768.0	1458.6	1160.3	1069.4	1033.0	1025.7	1011.2	1018.5	1029.4
45°	8307.7	6481.8	2651.6	1356.7	1116.7	1040.3	989.4	985.7	978.5	974.8	993.0
47.5°	8998.8	6911.0	2615.3	1294.9	1083.9	996.6	960.3	956.6	934.8	931.2	945.7
50°	9537.2	7227.4	2655.3	1265.8	1036.6	963.9	938.4	920.3	902.1	883.9	883.9
52.5°	9908.2	7445.7	2684.4	1244.0	1011.2	920.3	887.5	880.2	862.1	843.9	836.6
55°	10242.8	7576.6	2691.7	1247.6	985.7	869.3	847.5	843.9	833.0	803.9	796.6
57.5°	10355.6	7522.1	2546.2	1214.9	971.2	836.6	807.5	814.8	800.2	774.8	771.1
60°	10344.7	7143.8	2215.2	1171.2	938.4	800.2	763.8	785.7	785.7	756.6	752.9
62.5°	9715.4	6270.8	1811.4	1087.6	902.1	763.8	723.8	756.6	767.5	749.3	745.7
65°	8409.6	5106.9	1513.1	1003.9	847.5	723.8	683.8	720.2	738.4	731.1	727.5
67.5°	6958.3	3906.5	1258.5	894.8	778.4	669.3	636.5	662.0	672.9	676.6	680.2
70°	4917.7	2600.7	1051.2	774.8	683.8	611.1	574.7	578.3	574.7	585.6	585.6
72.5°	2673.5	1498.6	854.8	658.4	589.3	531.1	505.6	487.4	487.4	483.8	483.8
73°	2287.9	1345.8	814.8	640.2	563.8	516.5	487.4	472.9	472.9	469.2	465.6
75°	1284.0	985.7	698.4	549.2	487.4	451.0	429.2	407.4	403.7	403.7	403.7
77.5°	843.9	767.5	556.5	440.1	392.8	360.1	352.8	331.0	331.0	331.0	327.4
80°	632.9	603.8	429.2	334.6	301.9	276.4	269.2	254.6	251.0	236.4	240.1
82.5°	421.9	476.5	312.8	236.4	203.7	189.1	189.1	185.5	174.6	156.4	156.4
85°	334.6	389.2	225.5	145.5	120.0	101.8	105.5	101.8	98.2	80.0	76.4
87.5°	61.8	156.4	65.5	40.0	29.1	18.2	18.2	10.9	7.3	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)