

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: P481059

Luminaire Tested: **IFLD-S-SA6C-830-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481059
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-830-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

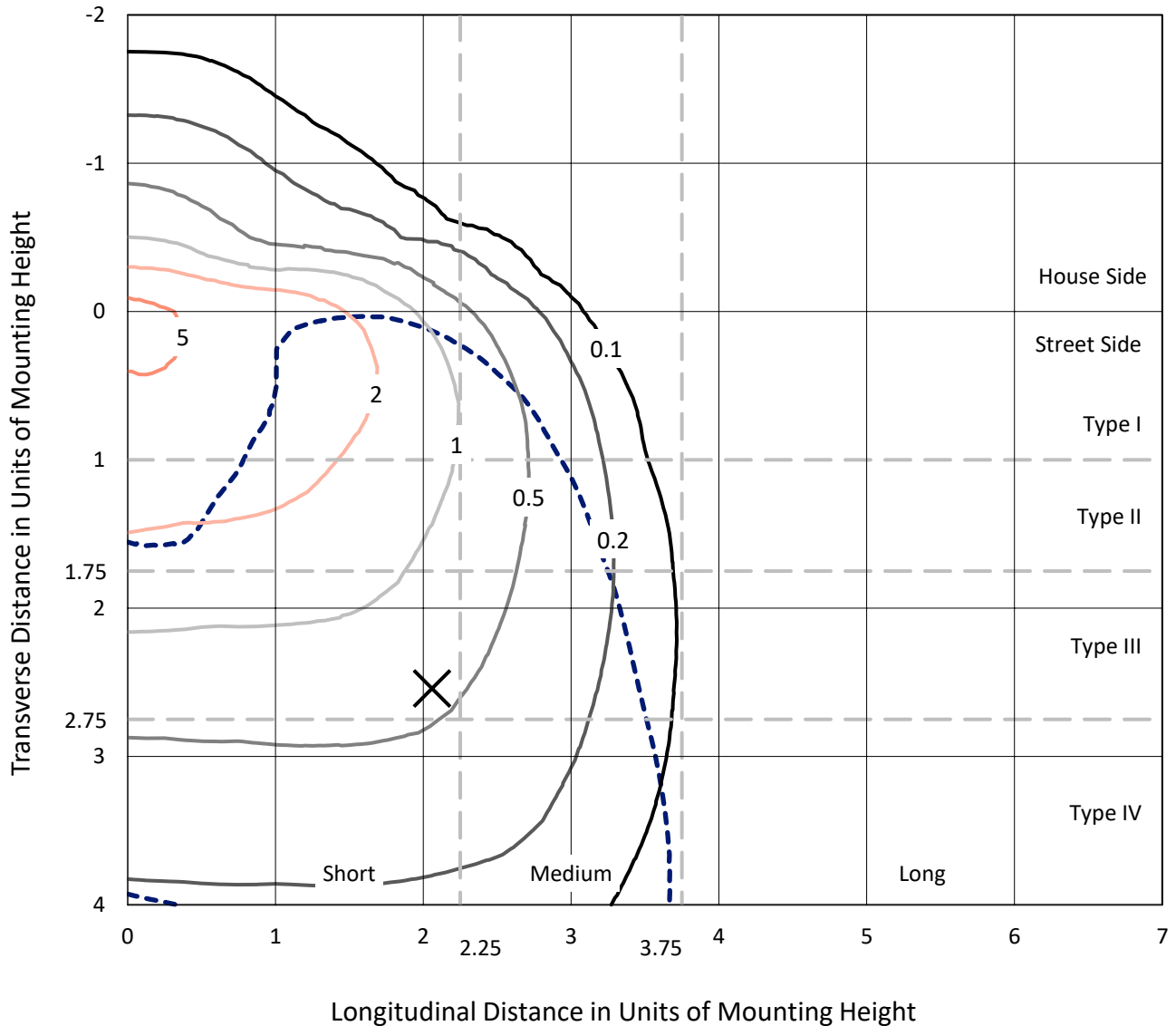
Lumens per Lamp: N/A
Luminaire Lumens: 31936.7 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 321.5
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

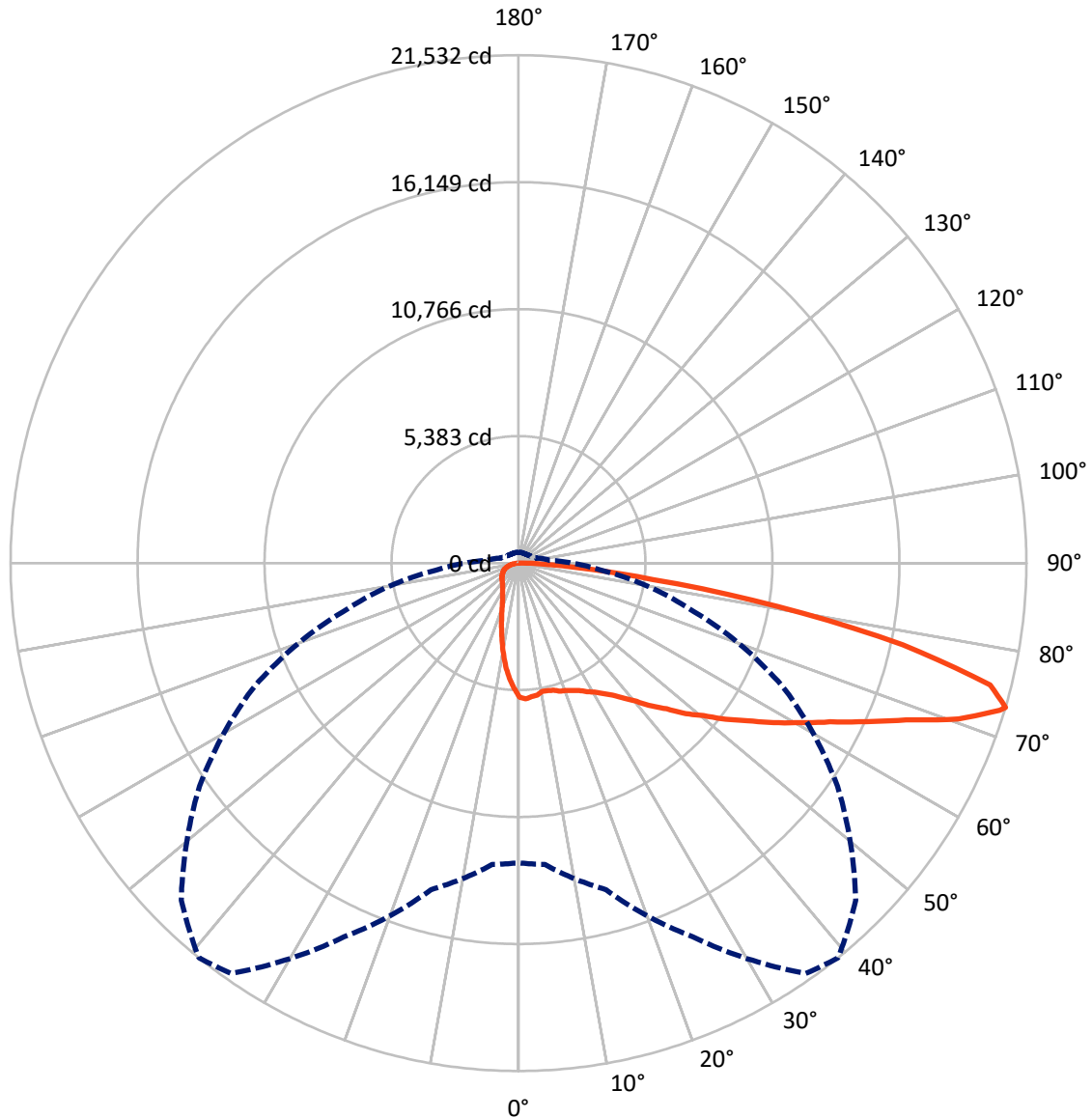
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.3 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	4489.4	0.0	4489.4
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	27447.3	0.0	27447.3
	% Fixture	85.9	0.0	85.9
Total	Lumens	31936.7	0.0	31936.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	493.5	1.5
10°-20°	1254.5	3.9
20°-30°	1917.1	6.0
30°-40°	2795.2	8.8
40°-50°	4223.8	13.2
50°-60°	6116.3	19.2
60°-70°	7771.0	24.3
70°-80°	6299.6	19.7
80°-90°	1065.9	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°	31936.7	100.0
0°-180°	31936.7	100.0

Coefficient of Utilization



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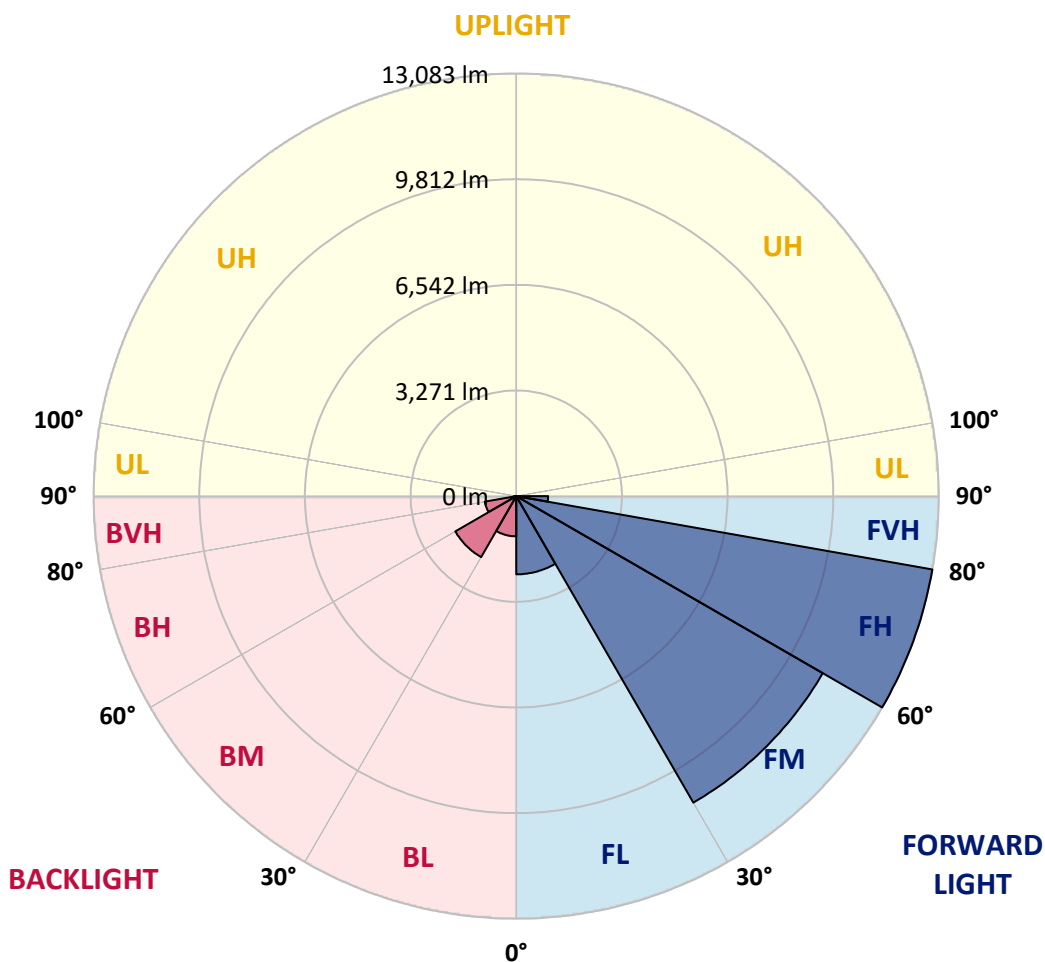
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2420.1	7.6			
FM (30°-60°)	10956.4	34.3			
FH (60°-80°)	13083.2	41.0			G5
FVH (80°-90°)	987.7	3.1			G5
BL (0°-30°)	1245.0	3.9	B3/2500		
BM (30°-60°)	2178.8	6.8	B2/2500		
BH (60°-80°)	987.4	3.1	B2/1000		G2/1000
BVH (80°-90°)	78.2	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°	5684.9	5684.9	5684.9	5684.9	5684.9	5684.9	5684.9	5684.9	5684.9	5684.9	5684.9
2.5°	5820.7	5760.0	5770.7	5749.3	5770.7	5763.5	5752.8	5699.2	5752.8	5699.2	5684.9
5°	5742.1	5742.1	5777.8	5724.2	5731.4	5695.7	5731.4	5692.1	5656.4	5567.0	5542.0
7.5°	5717.1	5713.5	5717.1	5642.1	5677.8	5656.4	5620.6	5577.7	5506.3	5449.1	5366.9
10°	5545.6	5581.3	5542.0	5563.4	5592.0	5527.7	5524.1	5513.4	5481.3	5406.2	5356.2
12.5°	5452.7	5513.4	5534.9	5517.0	5542.0	5549.2	5527.7	5513.4	5474.1	5424.1	5281.2
15°	5492.0	5420.5	5481.3	5599.2	5574.2	5592.0	5595.6	5581.3	5563.4	5470.5	5377.6
17.5°	5502.7	5459.8	5588.5	5613.5	5645.6	5709.9	5667.1	5663.5	5595.6	5531.3	5395.5
20°	5527.7	5509.9	5613.5	5745.7	5749.3	5760.0	5781.4	5727.8	5692.1	5581.3	5374.1
22.5°	5620.6	5681.4	5777.8	5835.0	5867.2	5874.3	5874.3	5767.1	5727.8	5638.5	5474.1
25°	5899.3	5835.0	5970.8	6038.7	5992.2	5981.5	5956.5	5860.0	5817.1	5738.5	5520.6
27.5°	6103.0	6099.4	6178.0	6270.9	6145.9	6170.9	6081.6	6053.0	5956.5	5913.6	5602.8
30°	6381.7	6460.3	6456.7	6485.3	6321.0	6349.5	6235.2	6181.6	6128.0	6153.0	5845.7
32.5°	6739.0	6710.4	6756.9	6735.5	6571.1	6596.1	6460.3	6378.1	6396.0	6471.0	6178.0
35°	6967.7	6939.1	6957.0	6957.0	6907.0	6878.4	6821.2	6714.0	6799.8	6939.1	6549.6
37.5°	7214.3	7250.0	7353.6	7332.2	7267.9	7267.9	7260.7	7185.7	7296.4	7639.5	7142.8
40°	7432.2	7528.7	7593.0	7635.9	7710.9	7710.9	7771.7	7728.8	7928.9	8479.2	7868.2
42.5°	7660.9	7664.5	8014.7	8046.8	8214.8	8286.2	8332.7	8368.4	8743.6	9358.2	8643.5
45°	7953.9	7971.8	8279.1	8525.6	8786.5	8811.5	8986.6	9104.5	9565.4	10319.4	9486.8
47.5°	8339.8	8318.4	8647.1	9040.2	9365.3	9536.8	9747.6	9876.3	10444.4	11362.7	10408.7
50°	8847.2	8782.9	8972.3	9590.4	9972.8	10162.1	10537.3	10751.7	11416.3	12359.6	11041.1
52.5°	9465.4	9358.2	9508.2	10183.6	10612.4	10994.7	11352.0	11591.4	12284.6	13131.5	11509.2
55°	10119.3	9897.7	9940.6	10812.5	11430.6	11791.5	12281.0	12531.2	13238.6	13824.7	11977.3
57.5°	10766.0	10626.7	10540.9	11416.3	12406.1	12752.7	13202.9	13528.1	14128.4	14439.2	12373.9
60°	11309.1	11273.4	11134.0	12352.5	13438.7	13735.3	14207.0	14407.1	14860.9	15007.4	12381.1
62.5°	11755.8	11634.3	11855.8	13106.4	14489.3	14825.1	15343.3	15361.1	15682.7	15361.1	12016.6
65°	12105.9	12113.1	12466.8	14017.6	15704.1	16200.8	16618.9	16572.4	16365.2	15150.3	11155.5
67.5°	12424.0	12559.7	13077.9	15018.1	17265.6	17733.7	18198.2	17583.6	16551.0	14164.1	9472.5
70°	12674.1	12809.9	13903.3	16236.6	19105.8	19791.9	19895.5	17983.8	15697.0	11998.8	7146.4
72.5°	12645.5	12892.1	14371.3	17208.5	20738.8	21331.9	20495.8	16858.3	13077.9	8364.8	4169.9
73°	12706.2	12827.7	14332.0	17480.0	21235.4	21532.0	20217.1	16504.5	12334.6	7503.7	3526.7
75°	11534.2	11945.2	13621.0	17036.9	20703.0	20649.4	18616.3	13753.2	8768.6	3941.2	1708.0
77.5°	8532.8	8793.6	10733.8	14010.5	16994.1	16651.0	14042.6	8790.0	4162.8	1461.4	921.9
80°	4169.9	4373.6	5688.5	8089.7	11112.6	11141.2	8715.0	4573.7	1783.0	825.4	628.9
82.5°	2083.2	2204.7	2733.5	3555.3	5467.0	5727.8	4420.0	2601.3	1104.1	468.1	357.3
85°	1361.4	1447.1	1683.0	1740.1	2319.0	2447.6	2058.2	2029.6	718.2	253.7	289.4
87.5°	904.0	918.3	1032.7	879.0	929.0	893.3	993.3	1279.2	210.8	107.2	78.6
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°	5684.9	5684.9	5684.9	5684.9	5684.9	5684.9	5684.9	5684.9	5684.9	5684.9	5684.9
2.5°	5667.1	5617.0	5563.4	5488.4	5434.8	5352.6	5277.6	5245.4	5238.3	5241.9	5206.1
5°	5520.6	5449.1	5341.9	5188.3	5098.9	4963.2	4848.8	4788.1	4723.8	4734.5	4705.9
7.5°	5316.9	5238.3	5073.9	4895.3	4673.7	4480.8	4373.6	4223.5	4137.7	4073.4	4109.2
10°	5252.6	5116.8	4870.3	4623.7	4280.7	4027.0	3780.4	3608.9	3491.0	3376.7	3426.7
12.5°	5220.4	5084.6	4741.6	4377.2	3934.1	3548.2	3201.6	2990.8	2822.8	2722.8	2762.1
15°	5191.8	5023.9	4620.1	4105.6	3608.9	3101.5	2712.0	2433.3	2272.5	2176.1	2186.8
17.5°	5231.1	4991.7	4441.5	3841.2	3251.6	2708.5	2276.1	1986.7	1822.3	1761.6	1747.3
20°	5191.8	4956.0	4266.4	3576.8	2894.3	2333.3	1918.8	1679.4	1565.1	1515.0	1504.3
22.5°	5206.1	4870.3	4084.1	3283.8	2562.0	2018.8	1679.4	1497.2	1407.8	1382.8	1390.0
25°	5274.0	4820.2	3901.9	2962.2	2233.2	1786.6	1525.7	1386.4	1322.1	1297.1	1304.2
27.5°	5324.0	4863.1	3737.6	2658.4	1954.5	1579.3	1397.1	1304.2	1261.3	1243.5	1239.9
30°	5449.1	4888.1	3576.8	2386.9	1725.8	1443.6	1307.8	1232.7	1204.2	1193.4	1189.9
32.5°	5634.9	4934.6	3391.0	2136.8	1557.9	1314.9	1236.3	1172.0	1164.9	1154.1	1157.7
35°	5938.6	5095.4	3183.7	1922.4	1397.1	1229.2	1161.3	1118.4	1118.4	1118.4	1129.1
37.5°	6374.6	5320.5	2997.9	1718.7	1293.5	1154.1	1097.0	1082.7	1075.5	1086.2	1093.4
40°	6935.6	5592.0	2847.8	1557.9	1204.2	1104.1	1054.1	1046.9	1043.4	1039.8	1046.9
42.5°	7550.1	5938.6	2719.2	1432.8	1139.8	1050.5	1014.8	1007.6	993.3	1000.5	1011.2
45°	8161.2	6367.4	2604.9	1332.8	1097.0	1021.9	971.9	968.3	961.2	957.6	975.5
47.5°	8840.1	6789.1	2569.1	1272.1	1064.8	979.1	943.3	939.7	918.3	914.7	929.0
50°	9368.9	7099.9	2608.4	1243.5	1018.4	946.9	921.9	904.0	886.1	868.3	868.3
52.5°	9733.4	7314.3	2637.0	1222.0	993.3	904.0	871.9	864.7	846.8	829.0	821.8
55°	10062.1	7442.9	2644.2	1225.6	968.3	854.0	832.6	829.0	818.3	789.7	782.5
57.5°	10172.9	7389.3	2501.2	1193.4	954.0	821.8	793.2	800.4	786.1	761.1	757.5
60°	10162.1	7017.7	2176.1	1150.6	921.9	786.1	750.4	771.8	771.8	743.2	739.6
62.5°	9544.0	6160.2	1779.4	1068.4	886.1	750.4	711.1	743.2	753.9	736.1	732.5
65°	8261.2	5016.8	1486.4	986.2	832.6	711.1	671.8	707.5	725.4	718.2	714.6
67.5°	6835.5	3837.6	1236.3	879.0	764.7	657.5	625.3	650.3	661.0	664.6	668.2
70°	4830.9	2554.8	1032.7	761.1	671.8	600.3	564.6	568.1	564.6	575.3	575.3
72.5°	2626.3	1472.2	839.7	646.7	578.9	521.7	496.7	478.8	478.8	475.2	475.2
73°	2247.5	1322.1	800.4	628.9	553.8	507.4	478.8	464.5	464.5	460.9	457.4
75°	1261.3	968.3	686.1	539.6	478.8	443.1	421.6	400.2	396.6	396.6	396.6
77.5°	829.0	753.9	546.7	432.4	385.9	353.7	346.6	325.2	325.2	325.2	321.6
80°	621.7	593.1	421.6	328.7	296.6	271.6	264.4	250.1	246.5	232.3	235.8
82.5°	414.5	468.1	307.3	232.3	200.1	185.8	185.8	182.2	171.5	153.6	153.6
85°	328.7	382.3	221.5	142.9	117.9	100.0	103.6	100.0	96.5	78.6	75.0
87.5°	60.7	153.6	64.3	39.3	28.6	17.9	17.9	10.7	7.1	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)