

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: P480748

Luminaire Tested: **IFLD-S-SA6D-722-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480748
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-722-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (96) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

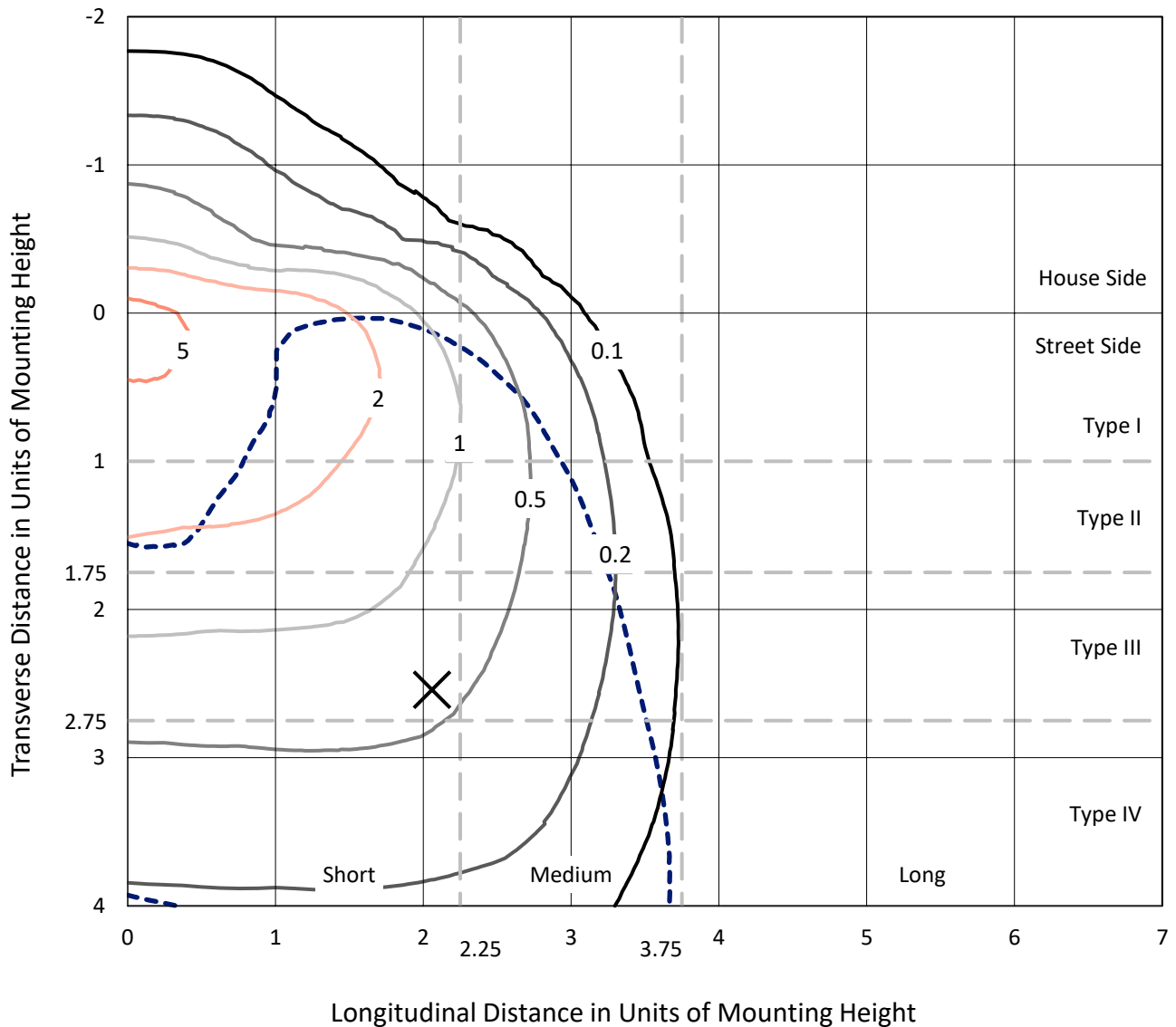
Lumens per Lamp: N/A
Luminaire Lumens: 32576.7 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

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

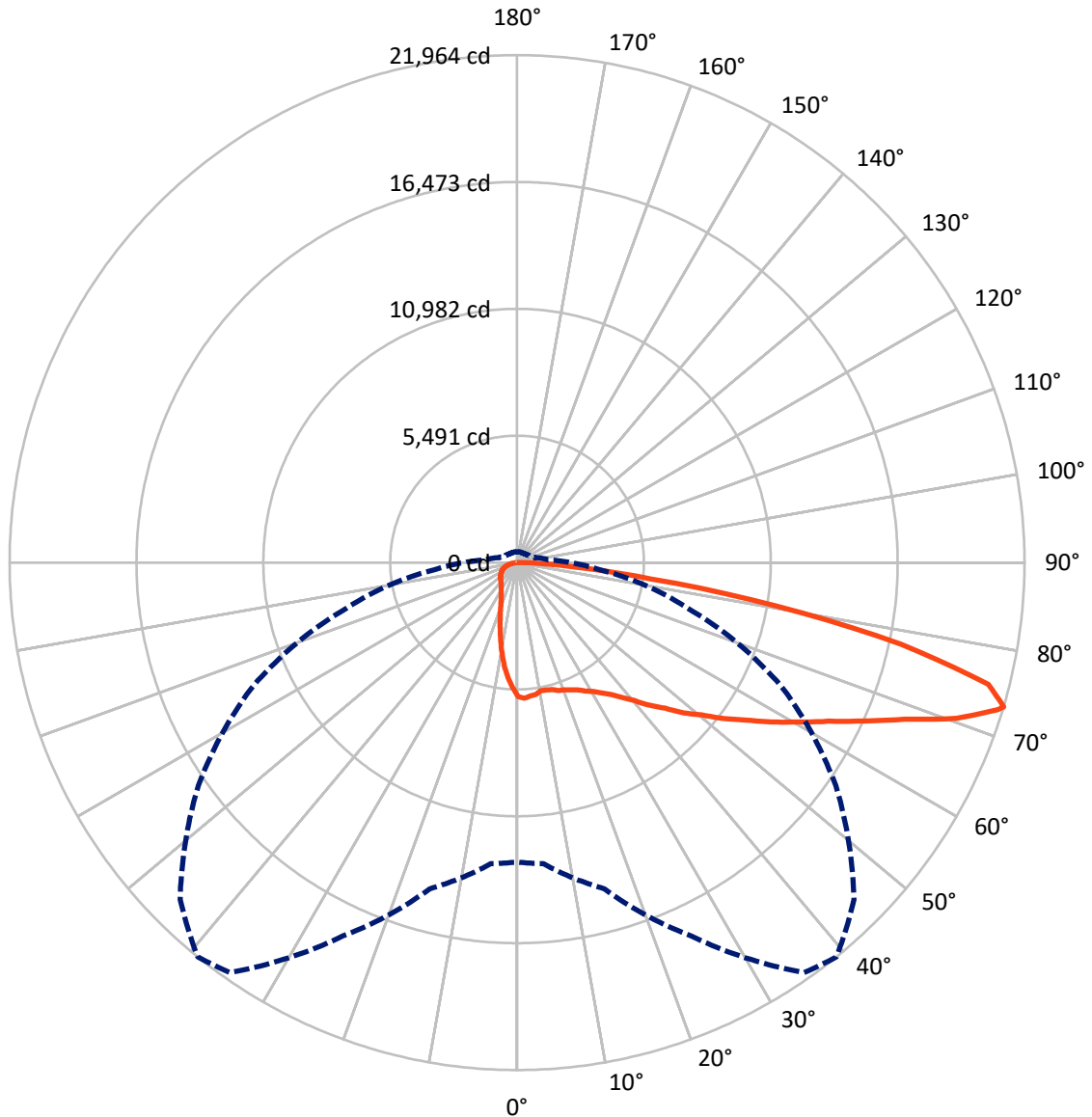
× Max cd
 - - - 1/2 Max cd



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	4579.4	0.0	4579.4
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	27997.4	0.0	27997.4
	% Fixture	85.9	0.0	85.9
Total	Lumens	32576.7	0.0	32576.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	503.4	1.5
10°-20°	1279.7	3.9
20°-30°	1955.5	6.0
30°-40°	2851.2	8.8
40°-50°	4308.4	13.2
50°-60°	6238.8	19.2
60°-70°	7926.7	24.3
70°-80°	6425.8	19.7
80°-90°	1087.2	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°	32576.7	100.0
0°-180°	32576.7	100.0

Coefficient of Utilization



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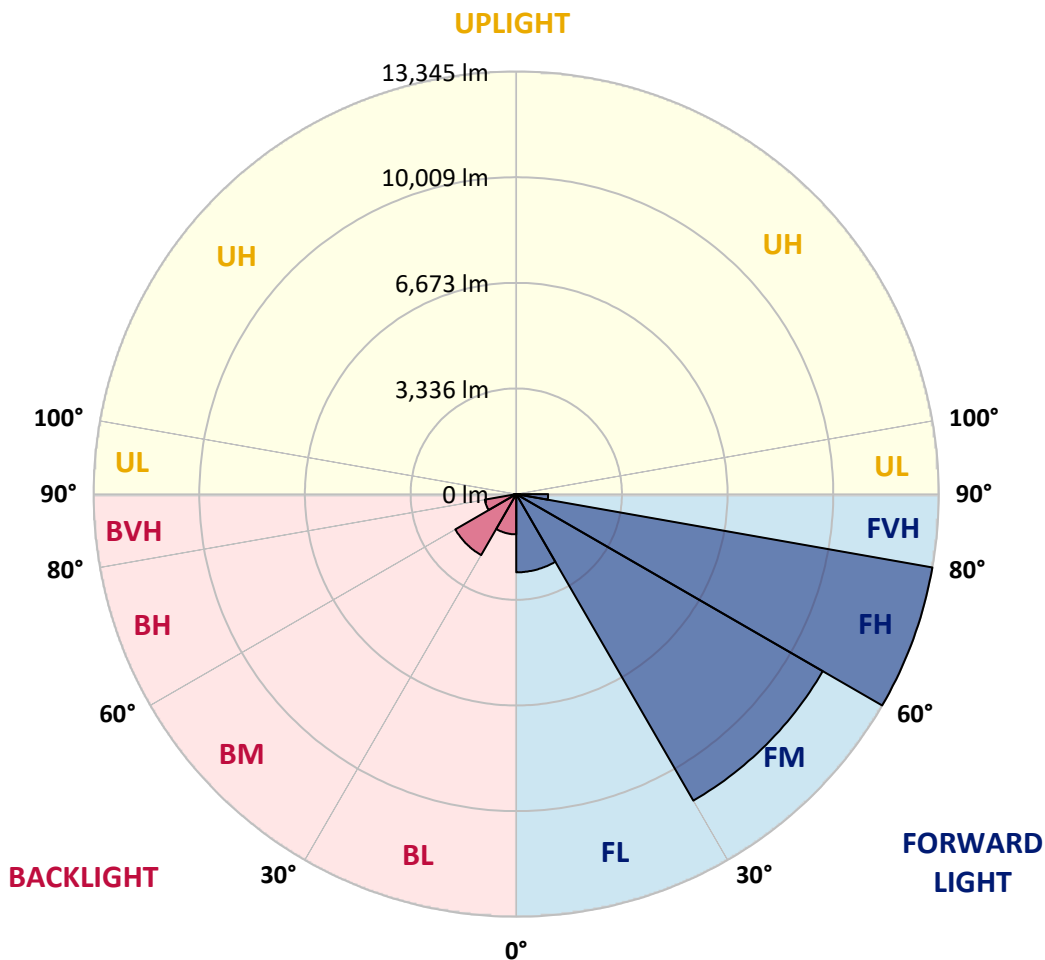
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2468.6	7.6			
FM (30°-60°)	11175.9	34.3			
FH (60°-80°)	13345.4	41.0			G5
FVH (80°-90°)	1007.5	3.1			G5
BL (0°-30°)	1270.0	3.9	B3/2500		
BM (30°-60°)	2222.5	6.8	B2/2500		
BH (60°-80°)	1007.2	3.1	B3/2500		G3/2500
BVH (80°-90°)	79.8	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°	5798.9	5798.9	5798.9	5798.9	5798.9	5798.9	5798.9	5798.9	5798.9	5798.9	5798.9
2.5°	5937.4	5875.4	5886.3	5864.5	5886.3	5879.0	5868.1	5813.4	5868.1	5813.4	5798.9
5°	5857.2	5857.2	5893.6	5839.0	5846.2	5809.8	5846.2	5806.1	5769.7	5678.6	5653.1
7.5°	5831.7	5828.0	5831.7	5755.1	5791.6	5769.7	5733.3	5689.5	5616.6	5558.3	5474.5
10°	5656.7	5693.2	5653.1	5674.9	5704.1	5638.5	5634.8	5623.9	5591.1	5514.6	5463.5
12.5°	5561.9	5623.9	5645.8	5627.6	5653.1	5660.4	5638.5	5623.9	5583.8	5532.8	5387.0
15°	5602.0	5529.1	5591.1	5711.4	5685.9	5704.1	5707.7	5693.2	5674.9	5580.2	5485.4
17.5°	5613.0	5569.2	5700.4	5726.0	5758.8	5824.4	5780.6	5777.0	5707.7	5642.1	5503.6
20°	5638.5	5620.3	5726.0	5860.8	5864.5	5875.4	5897.3	5842.6	5806.1	5693.2	5481.8
22.5°	5733.3	5795.2	5893.6	5951.9	5984.7	5992.0	5992.0	5882.7	5842.6	5751.5	5583.8
25°	6017.5	5951.9	6090.4	6159.7	6112.3	6101.4	6075.9	5977.5	5933.7	5853.5	5631.2
27.5°	6225.3	6221.7	6301.8	6396.6	6269.0	6294.5	6203.4	6174.3	6075.9	6032.1	5715.0
30°	6509.6	6589.8	6586.1	6615.3	6447.6	6476.8	6360.2	6305.5	6250.8	6276.3	5962.9
32.5°	6874.1	6844.9	6892.3	6870.4	6702.8	6728.3	6589.8	6505.9	6524.2	6600.7	6301.8
35°	7107.3	7078.2	7096.4	7096.4	7045.4	7016.2	6957.9	6848.6	6936.0	7078.2	6680.9
37.5°	7358.8	7395.3	7501.0	7479.1	7413.5	7413.5	7406.2	7329.7	7442.7	7792.6	7285.9
40°	7581.2	7679.6	7745.2	7788.9	7865.5	7865.5	7927.4	7883.7	8087.8	8649.1	8025.8
42.5°	7814.4	7818.1	8175.3	8208.1	8379.4	8452.3	8499.6	8536.1	8918.8	9545.7	8816.7
45°	8113.3	8131.5	8445.0	8696.5	8962.5	8988.0	9166.6	9286.9	9757.1	10526.1	9676.9
47.5°	8506.9	8485.1	8820.4	9221.3	9553.0	9727.9	9943.0	10074.2	10653.7	11590.4	10617.3
50°	9024.5	8958.9	9152.1	9782.6	10172.6	10365.8	10748.5	10967.2	11645.1	12607.3	11262.4
52.5°	9655.0	9545.7	9698.8	10387.6	10825.0	11215.0	11579.5	11823.7	12530.8	13394.6	11739.9
55°	10322.0	10096.1	10139.8	11029.1	11659.7	12027.8	12527.1	12782.3	13503.9	14101.7	12217.3
57.5°	10981.7	10839.6	10752.1	11645.1	12654.7	13008.2	13467.5	13799.2	14411.5	14728.6	12621.9
60°	11535.8	11499.3	11357.2	12600.0	13708.0	14010.6	14491.7	14695.8	15158.7	15308.1	12629.2
62.5°	11991.4	11867.4	12093.4	13369.1	14779.6	15122.2	15650.7	15668.9	15997.0	15668.9	12257.4
65°	12348.5	12355.8	12716.7	14298.5	16018.8	16525.5	16951.9	16904.5	16693.1	15453.9	11379.0
67.5°	12672.9	12811.4	13339.9	15319.0	17611.6	18089.1	18562.9	17936.0	16882.7	14447.9	9662.3
70°	12928.1	13066.6	14181.9	16561.9	19488.7	20188.5	20294.2	18344.2	16011.6	12239.2	7289.6
72.5°	12898.9	13150.4	14659.3	17553.3	21154.3	21759.4	20906.5	17196.1	13339.9	8532.4	4253.5
73°	12960.9	13084.8	14619.2	17830.3	21661.0	21963.5	20622.2	16835.3	12581.8	7654.1	3597.4
75°	11765.4	12184.5	13893.9	17378.3	21117.9	21063.2	18989.3	14028.8	8944.3	4020.2	1742.2
77.5°	8703.8	8969.8	10948.9	14291.2	17334.6	16984.7	14324.0	8966.2	4246.2	1490.7	940.4
80°	4253.5	4461.2	5802.5	8251.8	11335.3	11364.4	8889.6	4665.3	1818.7	841.9	641.5
82.5°	2124.9	2248.8	2788.3	3626.6	5576.5	5842.6	4508.6	2653.4	1126.2	477.5	364.5
85°	1388.7	1476.1	1716.7	1775.0	2365.5	2496.7	2099.4	2070.2	732.6	258.8	295.2
87.5°	922.1	936.7	1053.3	896.6	947.6	911.2	1013.3	1304.8	215.0	109.3	80.2
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°	5798.9	5798.9	5798.9	5798.9	5798.9	5798.9	5798.9	5798.9	5798.9	5798.9	5798.9
2.5°	5780.6	5729.6	5674.9	5598.4	5543.7	5459.9	5383.4	5350.5	5343.3	5346.9	5310.5
5°	5631.2	5558.3	5449.0	5292.2	5201.1	5062.6	4946.0	4884.0	4818.4	4829.3	4800.2
7.5°	5423.4	5343.3	5175.6	4993.4	4767.4	4570.6	4461.2	4308.1	4220.7	4155.1	4191.5
10°	5357.8	5219.3	4967.8	4716.4	4366.5	4107.7	3856.2	3681.2	3561.0	3444.3	3495.4
12.5°	5325.0	5186.5	4836.6	4464.9	4012.9	3619.3	3265.7	3050.7	2879.4	2777.3	2817.4
15°	5295.9	5124.6	4712.7	4187.9	3681.2	3163.7	2766.4	2482.1	2318.1	2219.7	2230.6
17.5°	5336.0	5091.8	4530.5	3918.1	3316.8	2762.7	2321.7	2026.5	1858.8	1796.9	1782.3
20°	5295.9	5055.3	4351.9	3648.4	2952.3	2380.0	1957.3	1713.1	1596.4	1545.4	1534.5
22.5°	5310.5	4967.8	4166.0	3349.6	2613.3	2059.3	1713.1	1527.2	1436.0	1410.5	1417.8
25°	5379.7	4916.8	3980.1	3021.5	2278.0	1822.4	1556.3	1414.2	1348.6	1323.1	1330.3
27.5°	5430.7	4960.6	3812.4	2711.7	1993.7	1611.0	1425.1	1330.3	1286.6	1268.4	1264.7
30°	5558.3	4986.1	3648.4	2434.7	1760.4	1472.5	1334.0	1257.5	1228.3	1217.4	1213.7
32.5°	5747.8	5033.5	3458.9	2179.6	1589.1	1341.3	1261.1	1195.5	1188.2	1177.3	1180.9
35°	6057.6	5197.5	3247.5	1960.9	1425.1	1253.8	1184.6	1140.8	1140.8	1140.8	1151.8
37.5°	6502.3	5427.1	3058.0	1753.1	1319.4	1177.3	1118.9	1104.4	1097.1	1108.0	1115.3
40°	7074.5	5704.1	2904.9	1589.1	1228.3	1126.2	1075.2	1067.9	1064.3	1060.6	1067.9
42.5°	7701.4	6057.6	2773.7	1461.6	1162.7	1071.6	1035.1	1027.8	1013.3	1020.5	1031.5
45°	8324.7	6495.0	2657.1	1359.5	1118.9	1042.4	991.4	987.7	980.4	976.8	995.0
47.5°	9017.2	6925.1	2620.6	1297.5	1086.1	998.7	962.2	958.6	936.7	933.1	947.6
50°	9556.6	7242.2	2660.7	1268.4	1038.8	965.9	940.4	922.1	903.9	885.7	885.7
52.5°	9928.4	7460.9	2689.9	1246.5	1013.3	922.1	889.3	882.0	863.8	845.6	838.3
55°	10263.7	7592.1	2697.1	1250.2	987.7	871.1	849.2	845.6	834.7	805.5	798.2
57.5°	10376.7	7537.4	2551.4	1217.4	973.2	838.3	809.1	816.4	801.9	776.3	772.7
60°	10365.8	7158.4	2219.7	1173.6	940.4	801.9	765.4	787.3	787.3	758.1	754.5
62.5°	9735.2	6283.6	1815.1	1089.8	903.9	765.4	725.3	758.1	769.1	750.8	747.2
65°	8426.7	5117.3	1516.2	1006.0	849.2	725.3	685.2	721.7	739.9	732.6	729.0
67.5°	6972.5	3914.5	1261.1	896.6	780.0	670.6	637.8	663.4	674.3	677.9	681.6
70°	4927.8	2606.0	1053.3	776.3	685.2	612.3	575.9	579.5	575.9	586.8	586.8
72.5°	2678.9	1501.7	856.5	659.7	590.5	532.1	506.6	488.4	488.4	484.8	484.8
73°	2292.6	1348.6	816.4	641.5	564.9	517.6	488.4	473.8	473.8	470.2	466.5
75°	1286.6	987.7	699.8	550.4	488.4	452.0	430.1	408.2	404.6	404.6	404.6
77.5°	845.6	769.1	557.7	441.0	393.6	360.8	353.5	331.7	331.7	331.7	328.0
80°	634.2	605.0	430.1	335.3	302.5	277.0	269.7	255.1	251.5	236.9	240.6
82.5°	422.8	477.5	313.5	236.9	204.1	189.5	189.5	185.9	174.9	156.7	156.7
85°	335.3	390.0	226.0	145.8	120.3	102.1	105.7	102.1	98.4	80.2	76.5
87.5°	62.0	156.7	65.6	40.1	29.2	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)