

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: P480909

Luminaire Tested: **IFLD-M-SA4D-740-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480909
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-740-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

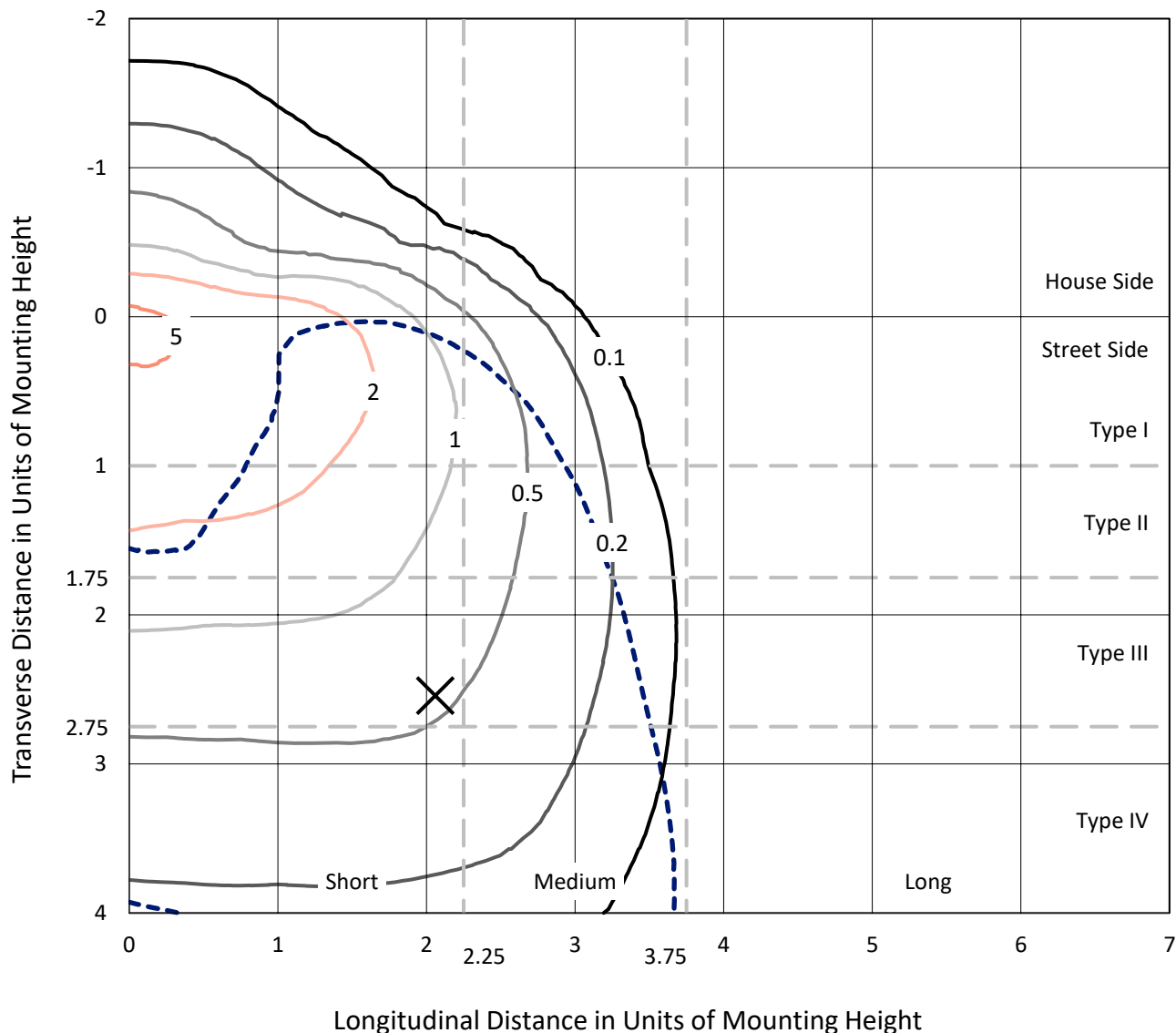
Lumens per Lamp: N/A
Luminaire Lumens: 30260.3 lumens
Efficiency: N/A
Efficacy: 121.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 249.7
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

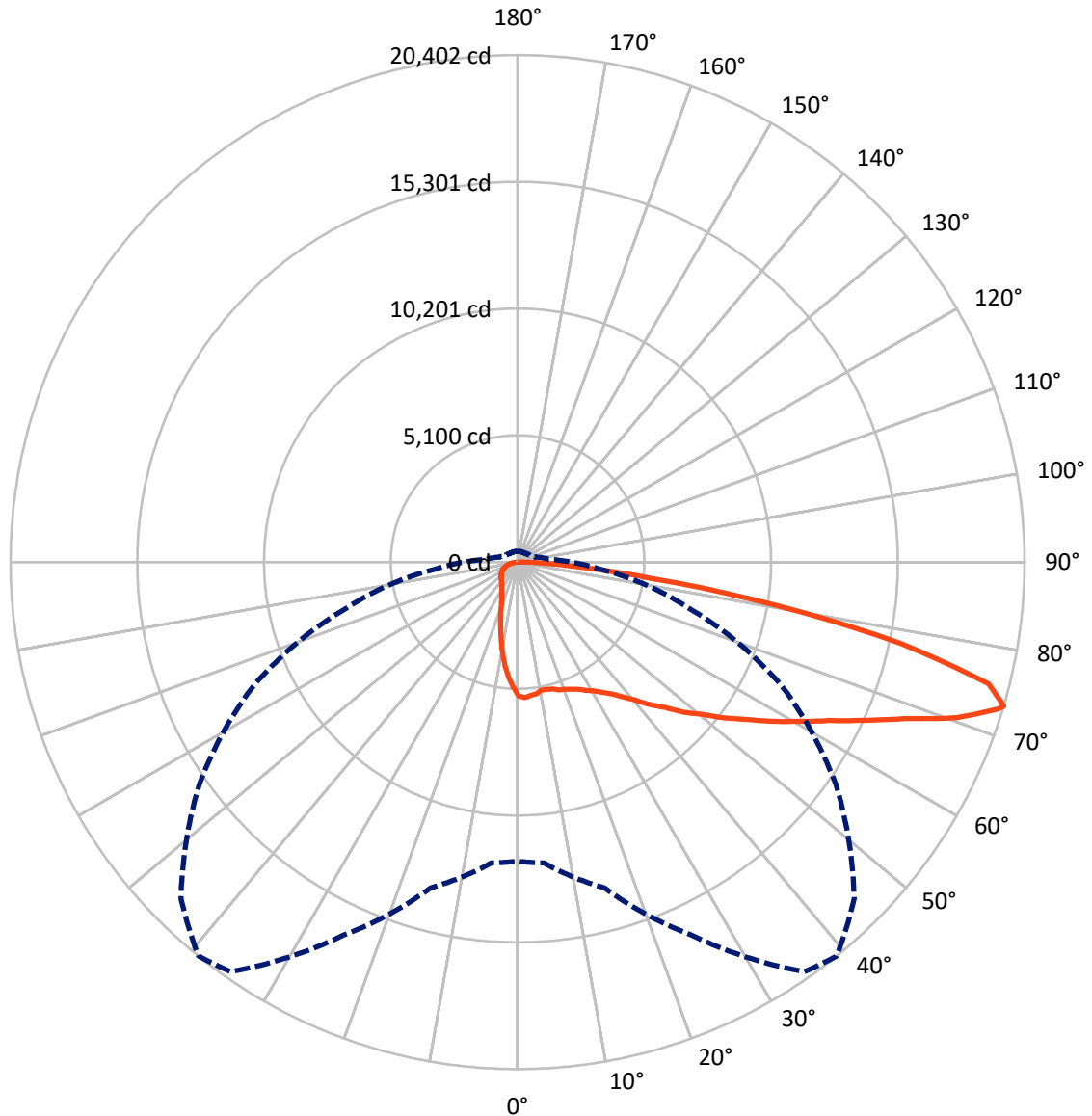
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6 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	4253.8	0.0	4253.8
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	26006.6	0.0	26006.6
	% Fixture	85.9	0.0	85.9
Total	Lumens	30260.3	0.0	30260.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	467.6	1.5
10°-20°	1188.7	3.9
20°-30°	1816.4	6.0
30°-40°	2648.4	8.8
40°-50°	4002.1	13.2
50°-60°	5795.2	19.2
60°-70°	7363.1	24.3
70°-80°	5968.9	19.7
80°-90°	1009.9	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°	30260.3	100.0
0°-180°	30260.3	100.0

Coefficient of Utilization



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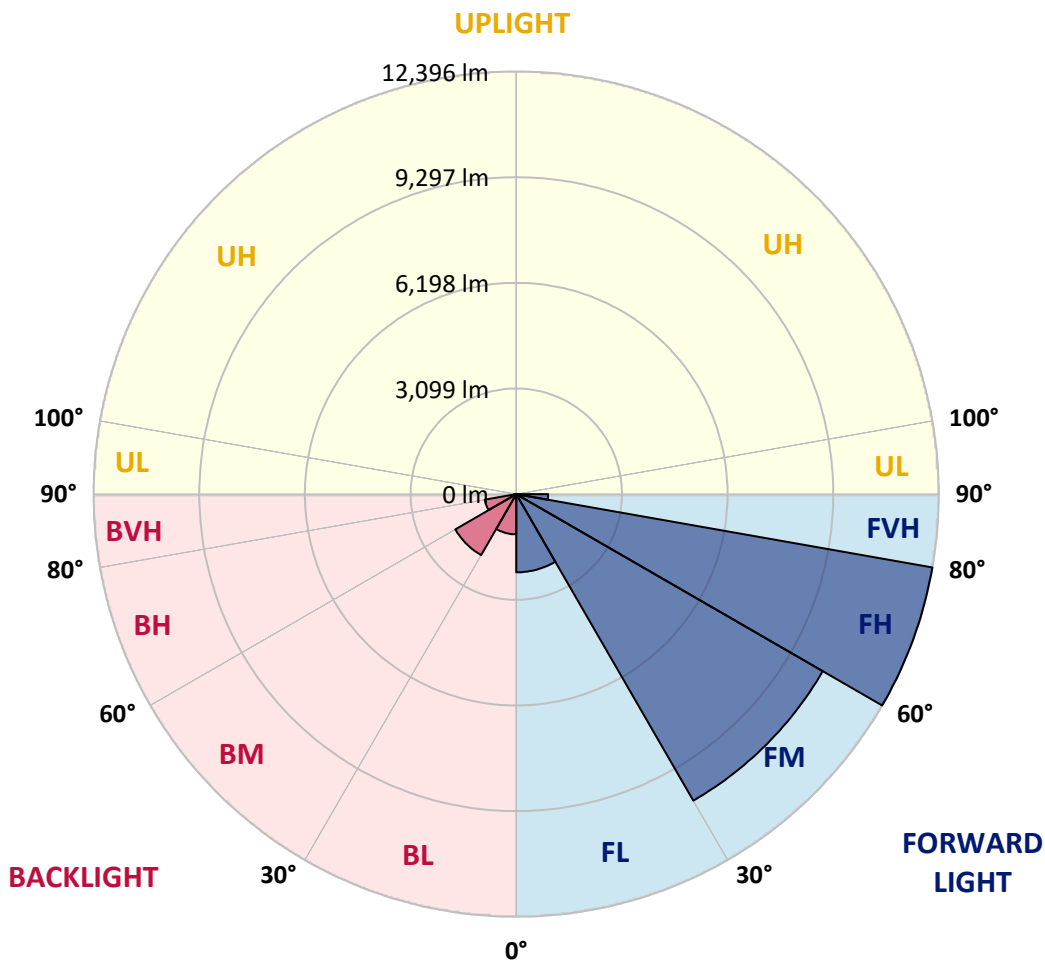
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2293.1	7.6			
FM (30°-60°)	10381.2	34.3			
FH (60°-80°)	12396.4	41.0			G5
FVH (80°-90°)	935.8	3.1			G5
BL (0°-30°)	1179.7	3.9	B3/2500		
BM (30°-60°)	2064.5	6.8	B2/2500		
BH (60°-80°)	935.6	3.1	B2/1000		G2/1000
BVH (80°-90°)	74.1	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°	5386.5	5386.5	5386.5	5386.5	5386.5	5386.5	5386.5	5386.5	5386.5	5386.5	5386.5
2.5°	5515.2	5457.6	5467.8	5447.5	5467.8	5461.0	5450.8	5400.1	5450.8	5400.1	5386.5
5°	5440.7	5440.7	5474.5	5423.8	5430.5	5396.7	5430.5	5393.3	5359.4	5274.8	5251.1
7.5°	5417.0	5413.6	5417.0	5345.9	5379.7	5359.4	5325.6	5285.0	5217.2	5163.1	5085.2
10°	5254.5	5288.3	5251.1	5271.4	5298.5	5237.6	5234.2	5224.0	5193.5	5122.4	5075.0
12.5°	5166.5	5224.0	5244.3	5227.4	5251.1	5257.9	5237.6	5224.0	5186.8	5139.4	5003.9
15°	5203.7	5136.0	5193.5	5305.3	5281.6	5298.5	5301.9	5288.3	5271.4	5183.4	5095.4
17.5°	5213.9	5173.2	5295.1	5318.8	5349.3	5410.2	5369.6	5366.2	5301.9	5240.9	5112.3
20°	5237.6	5220.6	5318.8	5444.1	5447.5	5457.6	5477.9	5427.1	5393.3	5288.3	5092.0
22.5°	5325.6	5383.1	5474.5	5528.7	5559.2	5566.0	5566.0	5464.4	5427.1	5342.5	5186.8
25°	5589.7	5528.7	5657.4	5721.7	5677.7	5667.5	5643.8	5552.4	5511.8	5437.3	5230.8
27.5°	5782.6	5779.3	5853.7	5941.8	5823.3	5847.0	5762.3	5735.2	5643.8	5603.2	5308.7
30°	6046.7	6121.2	6117.8	6144.9	5989.2	6016.2	5907.9	5857.1	5806.3	5830.0	5538.9
32.5°	6385.3	6358.2	6402.2	6381.9	6226.2	6249.9	6121.2	6043.3	6060.3	6131.4	5853.7
35°	6602.0	6574.9	6591.8	6591.8	6544.4	6517.3	6463.1	6361.6	6442.8	6574.9	6205.8
37.5°	6835.6	6869.4	6967.6	6947.3	6886.3	6886.3	6879.6	6808.5	6913.4	7238.5	6767.9
40°	7042.1	7133.5	7194.4	7235.1	7306.2	7306.2	7363.7	7323.1	7512.7	8034.1	7455.1
42.5°	7258.8	7262.2	7593.9	7624.4	7783.5	7851.3	7895.3	7929.1	8284.6	8866.9	8189.8
45°	7536.4	7553.3	7844.5	8078.1	8325.2	8348.9	8514.8	8626.6	9063.3	9777.7	8988.8
47.5°	7902.0	7881.7	8193.2	8565.6	8873.7	9036.2	9236.0	9357.9	9896.2	10766.3	9862.3
50°	8382.8	8321.9	8501.3	9087.0	9449.3	9628.7	9984.2	10187.3	10817.1	11710.9	10461.6
52.5°	8968.5	8866.9	9009.1	9649.0	10055.3	10417.6	10756.1	10982.9	11639.8	12442.2	10905.1
55°	9588.1	9378.2	9418.8	10244.9	10830.6	11172.5	11636.4	11873.4	12543.7	13099.0	11348.6
57.5°	10200.9	10068.8	9987.6	10817.1	11754.9	12083.3	12509.9	12818.0	13386.7	13681.3	11724.4
60°	10715.5	10681.6	10549.6	11704.1	12733.3	13014.3	13461.2	13650.8	14080.8	14219.6	11731.2
62.5°	11138.7	11023.6	11233.5	12418.5	13728.7	14046.9	14537.8	14554.8	14859.5	14554.8	11385.8
65°	11470.5	11477.2	11812.4	13281.8	14879.8	15350.4	15746.5	15702.5	15506.1	14355.0	10569.9
67.5°	11771.8	11900.5	12391.4	14229.8	16359.3	16802.8	17243.0	16660.6	15682.2	13420.6	8975.3
70°	12008.8	12137.4	13173.4	15384.3	18102.9	18752.9	18851.1	17039.8	14873.0	11368.9	6771.2
72.5°	11981.7	12215.3	13617.0	16305.1	19650.1	20212.1	19419.9	15973.4	12391.4	7925.7	3951.0
73°	12039.3	12154.4	13579.7	16562.4	20120.7	20401.7	19155.8	15638.2	11687.2	7109.8	3341.6
75°	10928.8	11318.1	12906.0	16142.6	19616.3	19565.5	17639.1	13031.2	8308.3	3734.3	1618.3
77.5°	8084.9	8332.0	10170.4	13275.0	16102.0	15777.0	13305.5	8328.6	3944.2	1384.7	873.5
80°	3951.0	4144.0	5389.9	7665.0	10529.3	10556.4	8257.5	4333.6	1689.4	782.1	595.9
82.5°	1973.8	2088.9	2590.0	3368.7	5180.0	5427.1	4188.0	2464.7	1046.2	443.5	338.6
85°	1289.9	1371.2	1594.6	1648.8	2197.3	2319.1	1950.1	1923.0	680.5	240.4	274.2
87.5°	856.6	870.1	978.4	832.9	880.3	846.4	941.2	1212.1	199.8	101.6	74.5
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°	5386.5	5386.5	5386.5	5386.5	5386.5	5386.5	5386.5	5386.5	5386.5	5386.5	5386.5
2.5°	5369.6	5322.2	5271.4	5200.3	5149.5	5071.7	5000.6	4970.1	4963.3	4966.7	4932.8
5°	5230.8	5163.1	5061.5	4915.9	4831.3	4702.6	4594.3	4536.7	4475.8	4485.9	4458.9
7.5°	5037.8	4963.3	4807.6	4638.3	4428.4	4245.6	4144.0	4001.8	3920.5	3859.6	3893.5
10°	4976.9	4848.2	4614.6	4381.0	4056.0	3815.6	3582.0	3419.5	3307.8	3199.4	3246.8
12.5°	4946.4	4817.7	4492.7	4147.4	3727.6	3361.9	3033.5	2833.8	2674.6	2579.8	2617.1
15°	4919.3	4760.2	4377.6	3890.1	3419.5	2938.7	2569.7	2305.6	2153.3	2061.8	2072.0
17.5°	4956.5	4729.7	4208.3	3639.5	3080.9	2566.3	2156.6	1882.4	1726.7	1669.1	1655.6
20°	4919.3	4695.9	4042.4	3389.0	2742.4	2210.8	1818.1	1591.2	1482.9	1435.5	1425.3
22.5°	4932.8	4614.6	3869.8	3111.4	2427.5	1912.9	1591.2	1418.6	1333.9	1310.2	1317.0
25°	4997.2	4567.2	3697.1	2806.7	2116.0	1692.8	1445.7	1313.6	1252.7	1229.0	1235.8
27.5°	5044.6	4607.8	3541.4	2518.9	1851.9	1496.4	1323.8	1235.8	1195.1	1178.2	1174.8
30°	5163.1	4631.5	3389.0	2261.6	1635.3	1367.8	1239.1	1168.0	1141.0	1130.8	1127.4
32.5°	5339.1	4675.5	3213.0	2024.6	1476.1	1245.9	1171.4	1110.5	1103.7	1093.6	1096.9
35°	5626.9	4827.9	3016.6	1821.5	1323.8	1164.7	1100.3	1059.7	1059.7	1059.7	1069.9
37.5°	6039.9	5041.2	2840.5	1628.5	1225.6	1093.6	1039.4	1025.8	1019.1	1029.2	1036.0
40°	6571.5	5298.5	2698.3	1476.1	1141.0	1046.2	998.8	992.0	988.6	985.2	992.0
42.5°	7153.8	5626.9	2576.5	1357.6	1080.0	995.4	961.5	954.7	941.2	948.0	958.1
45°	7732.8	6033.2	2468.1	1262.8	1039.4	968.3	920.9	917.5	910.7	907.3	924.3
47.5°	8376.0	6432.7	2434.3	1205.3	1008.9	927.7	893.8	890.4	870.1	866.7	880.3
50°	8877.1	6727.2	2471.5	1178.2	964.9	897.2	873.5	856.6	839.6	822.7	822.7
52.5°	9222.4	6930.4	2498.6	1157.9	941.2	856.6	826.1	819.3	802.4	785.5	778.7
55°	9533.9	7052.2	2505.4	1161.3	917.5	809.2	788.8	785.5	775.3	748.2	741.5
57.5°	9638.9	7001.5	2369.9	1130.8	904.0	778.7	751.6	758.4	744.8	721.1	717.8
60°	9628.7	6649.4	2061.8	1090.2	873.5	744.8	711.0	731.3	731.3	704.2	700.8
62.5°	9043.0	5836.8	1686.0	1012.3	839.6	711.0	673.7	704.2	714.4	697.4	694.1
65°	7827.6	4753.4	1408.4	934.4	788.8	673.7	636.5	670.4	687.3	680.5	677.1
67.5°	6476.7	3636.2	1171.4	832.9	724.5	623.0	592.5	616.2	626.3	629.7	633.1
70°	4577.4	2420.7	978.4	721.1	636.5	568.8	534.9	538.3	534.9	545.1	545.1
72.5°	2488.4	1394.9	795.6	612.8	548.5	494.3	470.6	453.7	453.7	450.3	450.3
73°	2129.6	1252.7	758.4	595.9	524.8	480.8	453.7	440.1	440.1	436.7	433.4
75°	1195.1	917.5	650.0	511.2	453.7	419.8	399.5	379.2	375.8	375.8	375.8
77.5°	785.5	714.4	518.0	409.7	365.6	335.2	328.4	308.1	308.1	308.1	304.7
80°	589.1	562.0	399.5	311.5	281.0	257.3	250.5	237.0	233.6	220.1	223.5
82.5°	392.7	443.5	291.2	220.1	189.6	176.1	176.1	172.7	162.5	145.6	145.6
85°	311.5	362.3	209.9	135.4	111.7	94.8	98.2	94.8	91.4	74.5	71.1
87.5°	57.6	145.6	60.9	37.2	27.1	16.9	16.9	10.2	6.8	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)