

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: P480956

Luminaire Tested: **IFLD-L-SA8B-750-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480956
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-750-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (128) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

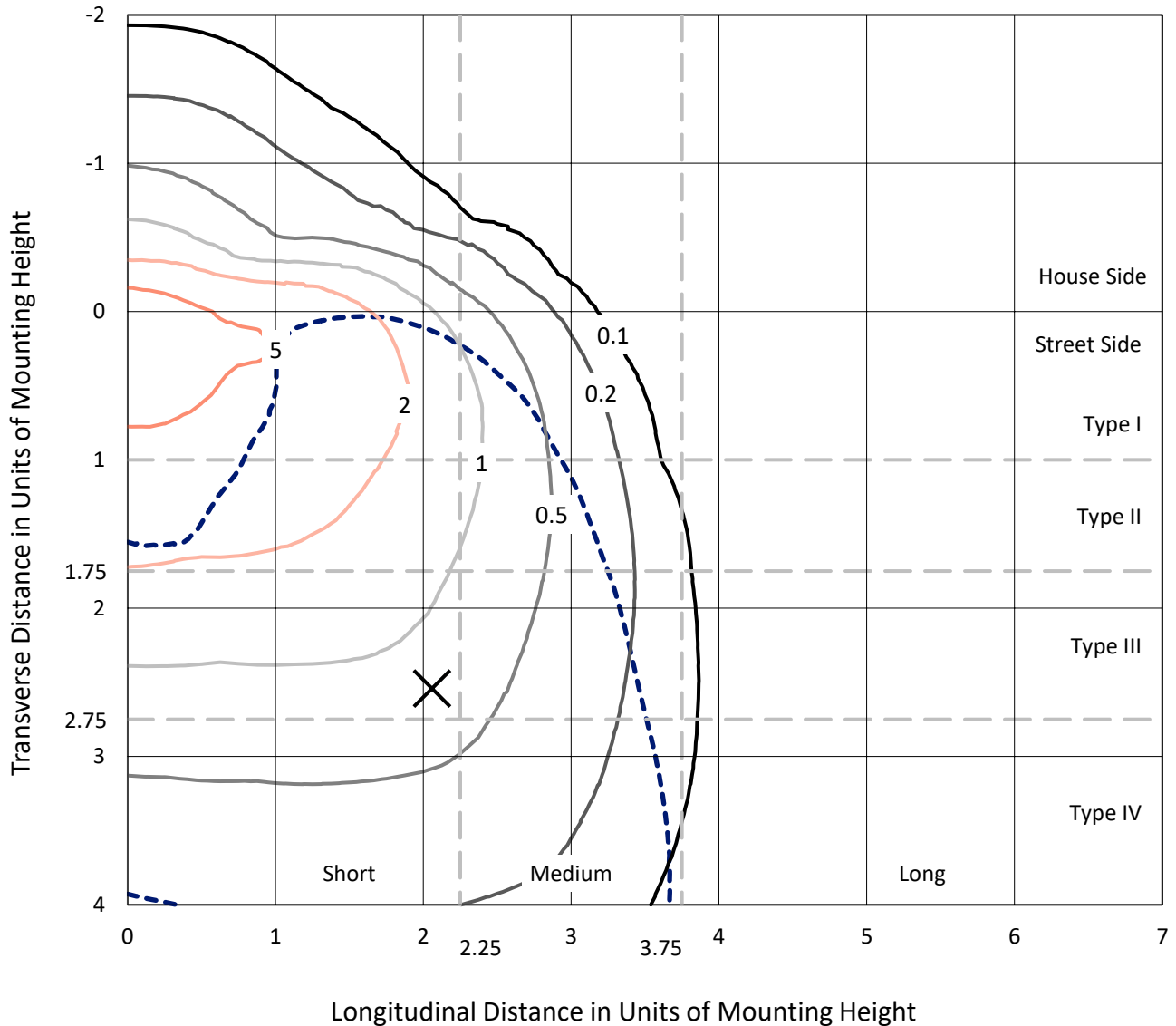
Lumens per Lamp: N/A
Luminaire Lumens: 40268.5 lumens
Efficiency: N/A
Efficacy: 125.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 320
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

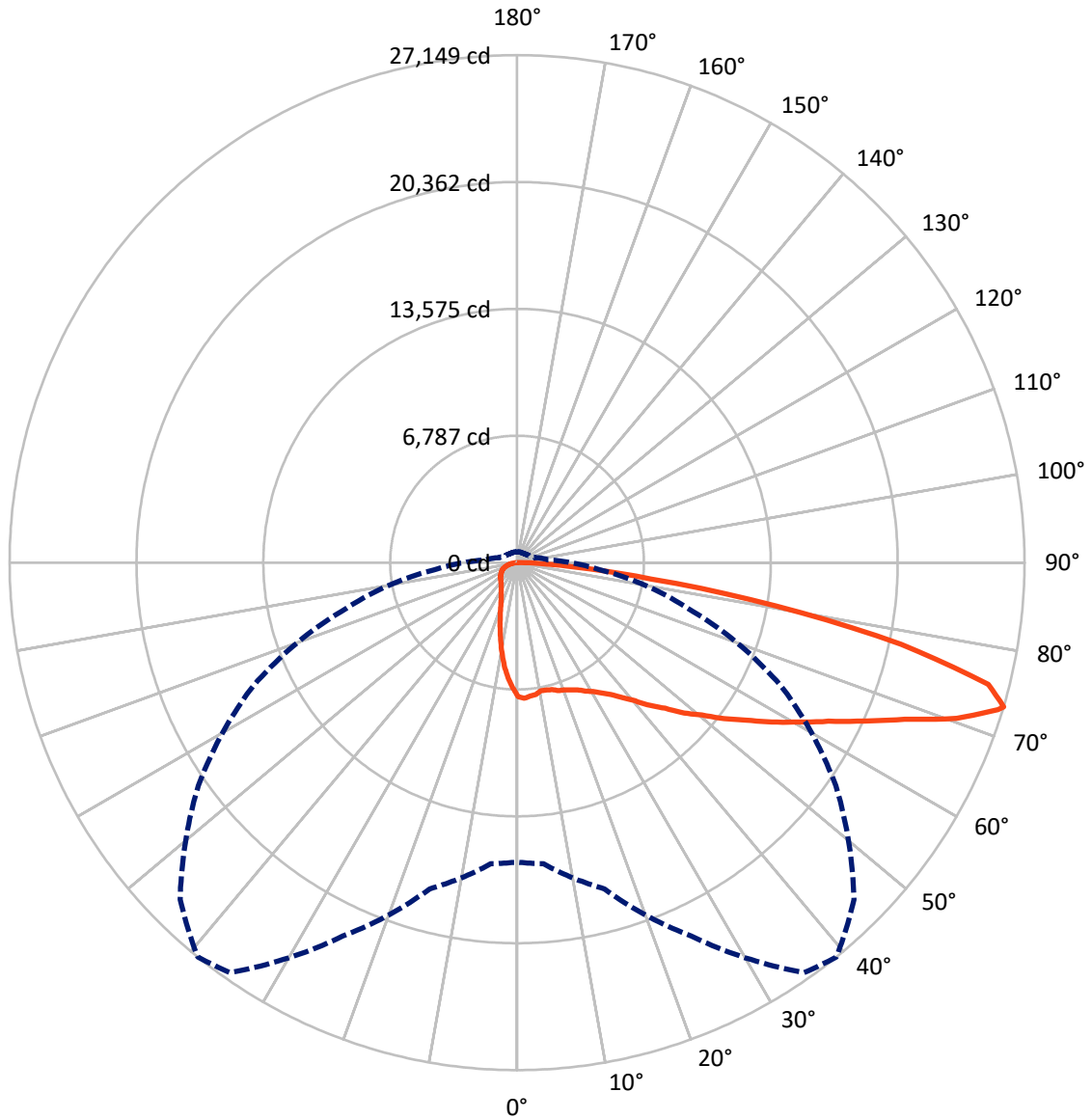
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8 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	5660.6	0.0	5660.6
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	34607.9	0.0	34607.9
	% Fixture	85.9	0.0	85.9
Total	Lumens	40268.5	0.0	40268.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	622.2	1.5
10°-20°	1581.8	3.9
20°-30°	2417.2	6.0
30°-40°	3524.4	8.8
40°-50°	5325.7	13.2
50°-60°	7711.9	19.2
60°-70°	9798.3	24.3
70°-80°	7943.1	19.7
80°-90°	1343.9	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°	40268.5	100.0
0°-180°	40268.5	100.0

Coefficient of Utilization



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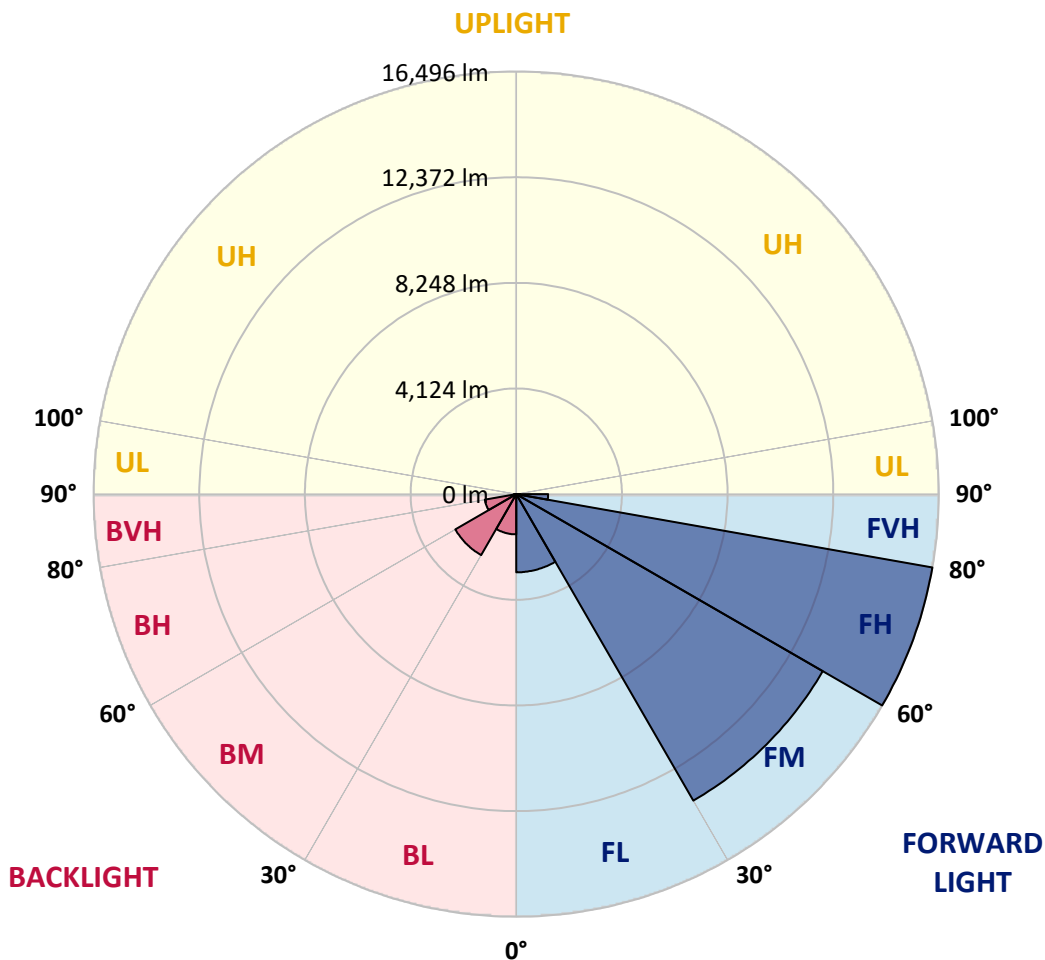
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3051.5	7.6			
FM (30°-60°)	13814.7	34.3			
FH (60°-80°)	16496.4	41.0			G5
FVH (80°-90°)	1245.3	3.1			G5
BL (0°-30°)	1569.8	3.9	B3/2500		
BM (30°-60°)	2747.2	6.8	B3/5000		
BH (60°-80°)	1245.0	3.1	B3/2500		G3/2500
BVH (80°-90°)	98.6	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°	7168.0	7168.0	7168.0	7168.0	7168.0	7168.0	7168.0	7168.0	7168.0	7168.0	7168.0
2.5°	7339.2	7262.7	7276.2	7249.1	7276.2	7267.2	7253.6	7186.1	7253.6	7186.1	7168.0
5°	7240.1	7240.1	7285.2	7217.6	7226.6	7181.6	7226.6	7177.1	7132.0	7019.4	6987.8
7.5°	7208.6	7204.1	7208.6	7114.0	7159.0	7132.0	7086.9	7032.9	6942.8	6870.7	6767.1
10°	6992.3	7037.4	6987.8	7014.9	7050.9	6969.8	6965.3	6951.8	6911.2	6816.6	6753.5
12.5°	6875.2	6951.8	6978.8	6956.3	6987.8	6996.8	6969.8	6951.8	6902.2	6839.2	6658.9
15°	6924.8	6834.6	6911.2	7059.9	7028.4	7050.9	7055.4	7037.4	7014.9	6897.7	6780.6
17.5°	6938.3	6884.2	7046.4	7077.9	7118.5	7199.6	7145.5	7141.0	7055.4	6974.3	6803.1
20°	6969.8	6947.3	7077.9	7244.6	7249.1	7262.7	7289.7	7222.1	7177.1	7037.4	6776.1
22.5°	7086.9	7163.5	7285.2	7357.3	7397.8	7406.8	7406.8	7271.7	7222.1	7109.5	6902.2
25°	7438.4	7357.3	7528.5	7614.1	7555.5	7542.0	7510.5	7388.8	7334.7	7235.6	6960.8
27.5°	7695.2	7690.7	7789.8	7906.9	7749.2	7780.8	7668.1	7632.1	7510.5	7456.4	7064.4
30°	8046.6	8145.7	8141.2	8177.2	7970.0	8006.0	7861.9	7794.3	7726.7	7758.2	7370.8
32.5°	8497.1	8461.1	8519.7	8492.6	8285.4	8316.9	8145.7	8042.1	8064.6	8159.2	7789.8
35°	8785.5	8749.4	8772.0	8772.0	8708.9	8672.8	8600.7	8465.6	8573.7	8749.4	8258.3
37.5°	9096.3	9141.4	9272.0	9245.0	9163.9	9163.9	9154.9	9060.3	9200.0	9632.5	9006.2
40°	9371.2	9492.8	9573.9	9628.0	9722.6	9722.6	9799.2	9745.1	9997.4	10691.2	9920.8
42.5°	9659.5	9664.0	10105.5	10146.1	10357.8	10448.0	10506.5	10551.6	11024.6	11799.6	10898.5
45°	10029.0	10051.5	10438.9	10749.8	11078.7	11110.2	11331.0	11479.7	12060.9	13011.5	11961.8
47.5°	10515.5	10488.5	10903.0	11398.6	11808.6	12024.8	12290.6	12452.8	13169.2	14327.1	13124.1
50°	11155.3	11074.2	11313.0	12092.4	12574.5	12813.3	13286.3	13556.7	14394.7	15584.1	13921.6
52.5°	11934.7	11799.6	11988.8	12840.3	13380.9	13863.0	14313.6	14615.4	15489.5	16557.2	14511.8
55°	12759.2	12479.9	12533.9	13633.2	14412.7	14867.7	15485.0	15800.3	16692.4	17431.3	15102.0
57.5°	13574.7	13399.0	13290.8	14394.7	15642.6	16079.7	16647.3	17057.3	17814.2	18206.2	15602.1
60°	14259.5	14214.4	14038.7	15575.1	16944.7	17318.6	17913.3	18165.6	18737.8	18922.6	15611.1
62.5°	14822.7	14669.5	14948.8	16525.7	18269.3	18692.8	19346.1	19368.6	19774.1	19368.6	15151.6
65°	15264.2	15273.2	15719.2	17674.6	19801.1	20427.3	20954.5	20895.9	20634.6	19102.8	14065.8
67.5°	15665.2	15836.4	16489.7	18936.1	21769.9	22360.1	22945.8	22170.9	20868.9	17859.3	11943.7
70°	15980.5	16151.7	17530.4	20472.4	24090.2	24955.2	25085.9	22675.5	19792.1	15129.0	9010.7
72.5°	15944.5	16255.4	18120.6	21697.9	26149.2	26897.1	25842.8	21256.3	16489.7	10547.1	5257.8
73°	16021.1	16174.3	18071.0	22040.3	26775.4	27149.4	25491.4	20810.3	15552.5	9461.3	4446.8
75°	14543.3	15061.4	17174.5	21481.6	26104.1	26036.5	23473.0	17341.2	11056.2	4969.4	2153.6
77.5°	10758.8	11087.7	13534.1	17665.6	21427.5	20995.0	17706.1	11083.2	5248.8	1842.7	1162.4
80°	5257.8	5514.6	7172.5	10200.2	14011.7	14047.7	10988.6	5766.9	2248.2	1040.7	792.9
82.5°	2626.6	2779.8	3446.6	4482.8	6893.2	7222.1	5573.1	3279.9	1392.2	590.2	450.5
85°	1716.5	1824.7	2122.0	2194.1	2924.0	3086.2	2595.1	2559.0	905.6	319.9	364.9
87.5°	1139.9	1157.9	1302.1	1108.3	1171.4	1126.3	1252.5	1612.9	265.8	135.2	99.1
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°	7168.0	7168.0	7168.0	7168.0	7168.0	7168.0	7168.0	7168.0	7168.0	7168.0	7168.0
2.5°	7145.5	7082.4	7014.9	6920.2	6852.7	6749.0	6654.4	6613.9	6604.9	6609.4	6564.3
5°	6960.8	6870.7	6735.5	6541.8	6429.2	6258.0	6113.8	6037.2	5956.1	5969.6	5933.6
7.5°	6704.0	6604.9	6397.6	6172.4	5893.0	5649.7	5514.6	5325.3	5217.2	5136.1	5181.2
10°	6622.9	6451.7	6140.8	5829.9	5397.4	5077.6	4766.7	4550.4	4401.7	4257.6	4320.6
12.5°	6582.3	6411.1	5978.6	5519.1	4960.4	4473.8	4036.8	3771.0	3559.2	3433.1	3482.7
15°	6546.3	6334.5	5825.4	5176.7	4550.4	3910.7	3419.6	3068.2	2865.4	2743.8	2757.3
17.5°	6595.9	6294.0	5600.2	4843.3	4099.9	3415.1	2869.9	2505.0	2297.7	2221.1	2203.1
20°	6546.3	6248.9	5379.4	4509.9	3649.3	2942.0	2419.4	2117.5	1973.4	1910.3	1896.8
22.5°	6564.3	6140.8	5149.6	4140.4	3230.3	2545.5	2117.5	1887.7	1775.1	1743.6	1752.6
25°	6649.9	6077.7	4919.9	3735.0	2815.9	2252.7	1923.8	1748.1	1667.0	1635.4	1644.5
27.5°	6713.0	6131.8	4712.6	3352.0	2464.4	1991.4	1761.6	1644.5	1590.4	1567.9	1563.4
30°	6870.7	6163.3	4509.9	3009.6	2176.1	1820.2	1649.0	1554.4	1518.3	1504.8	1500.3
32.5°	7105.0	6221.9	4275.6	2694.2	1964.3	1658.0	1558.9	1477.8	1468.8	1455.2	1459.7
35°	7487.9	6424.7	4014.3	2423.9	1761.6	1549.8	1464.2	1410.2	1410.2	1410.2	1423.7
37.5°	8037.6	6708.5	3780.0	2167.1	1630.9	1455.2	1383.1	1365.1	1356.1	1369.6	1378.6
40°	8744.9	7050.9	3590.8	1964.3	1518.3	1392.2	1329.1	1320.1	1315.6	1311.1	1320.1
42.5°	9519.8	7487.9	3428.6	1806.7	1437.2	1324.6	1279.5	1270.5	1252.5	1261.5	1275.0
45°	10290.3	8028.6	3284.4	1680.5	1383.1	1288.5	1225.5	1221.0	1211.9	1207.4	1230.0
47.5°	11146.3	8560.2	3239.4	1603.9	1342.6	1234.5	1189.4	1184.9	1157.9	1153.4	1171.4
50°	11813.1	8952.2	3288.9	1567.9	1284.0	1193.9	1162.4	1139.9	1117.3	1094.8	1094.8
52.5°	12272.6	9222.5	3325.0	1540.8	1252.5	1139.9	1099.3	1090.3	1067.8	1045.2	1036.2
55°	12687.1	9384.7	3334.0	1545.3	1221.0	1076.8	1049.8	1045.2	1031.7	995.7	986.7
57.5°	12826.8	9317.1	3153.8	1504.8	1202.9	1036.2	1000.2	1009.2	991.2	959.6	955.1
60°	12813.3	8848.5	2743.8	1450.7	1162.4	991.2	946.1	973.2	973.2	937.1	932.6
62.5°	12033.8	7767.3	2243.7	1347.1	1117.3	946.1	896.6	937.1	950.6	928.1	923.6
65°	10416.4	6325.5	1874.2	1243.5	1049.8	896.6	847.0	892.1	914.6	905.6	901.1
67.5°	8618.8	4838.8	1558.9	1108.3	964.1	829.0	788.4	820.0	833.5	838.0	842.5
70°	6091.3	3221.3	1302.1	959.6	847.0	756.9	711.8	716.4	711.8	725.4	725.4
72.5°	3311.4	1856.2	1058.8	815.5	729.9	657.8	626.2	603.7	603.7	599.2	599.2
73°	2833.9	1667.0	1009.2	792.9	698.3	639.8	603.7	585.7	585.7	581.2	576.7
75°	1590.4	1221.0	865.0	680.3	603.7	558.7	531.6	504.6	500.1	500.1	500.1
77.5°	1045.2	950.6	689.3	545.1	486.6	446.0	437.0	410.0	410.0	410.0	405.5
80°	783.9	747.9	531.6	414.5	373.9	342.4	333.4	315.4	310.9	292.8	297.4
82.5°	522.6	590.2	387.5	292.8	252.3	234.3	234.3	229.8	216.3	193.7	193.7
85°	414.5	482.1	279.3	180.2	148.7	126.2	130.7	126.2	121.6	99.1	94.6
87.5°	76.6	193.7	81.1	49.6	36.0	22.5	22.5	13.5	9.0	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)