

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: P480835

Luminaire Tested: **IFLD-L-SA7C-730-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480835
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-730-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

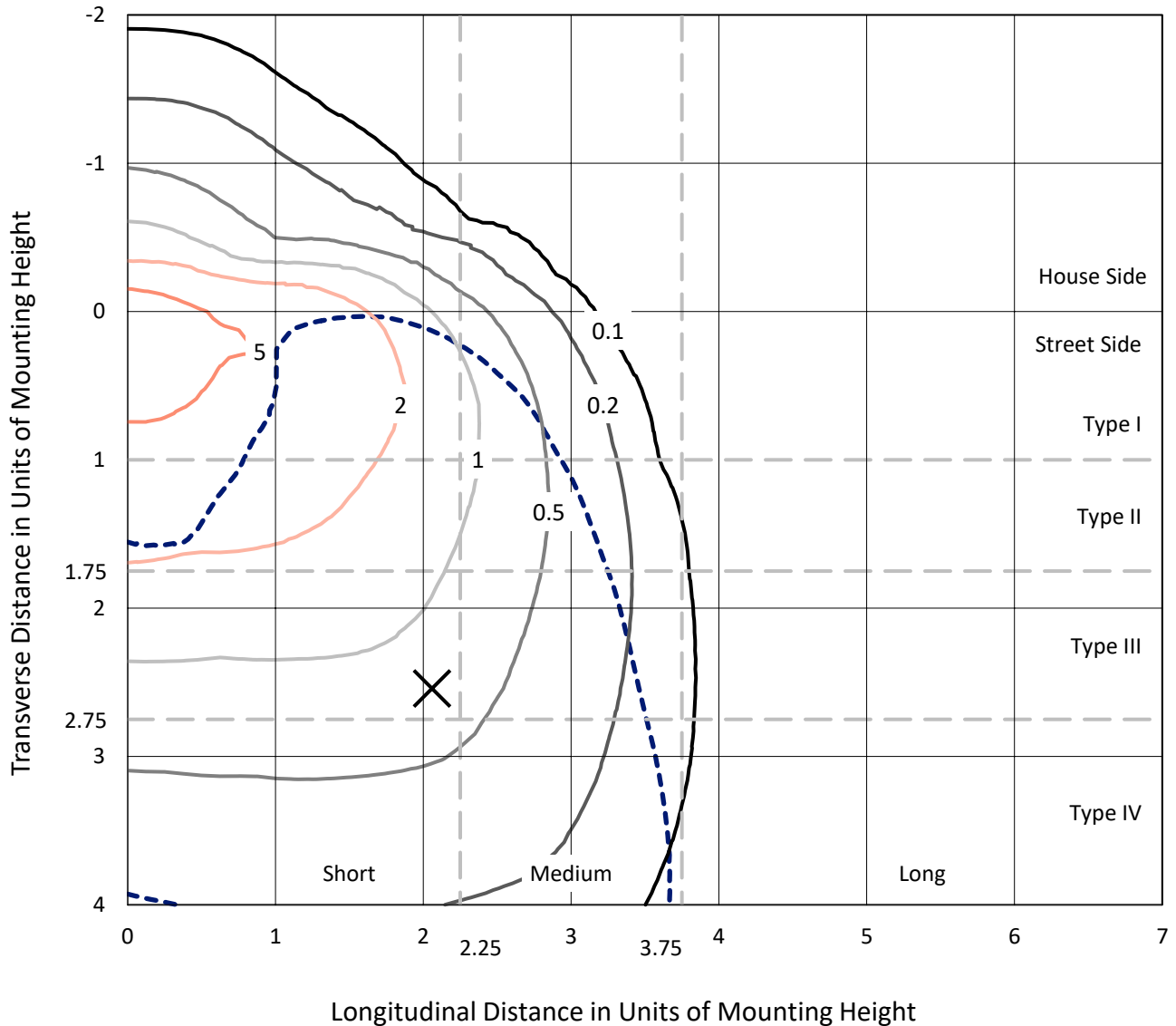
Lumens per Lamp: N/A
Luminaire Lumens: 39046.8 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 369
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

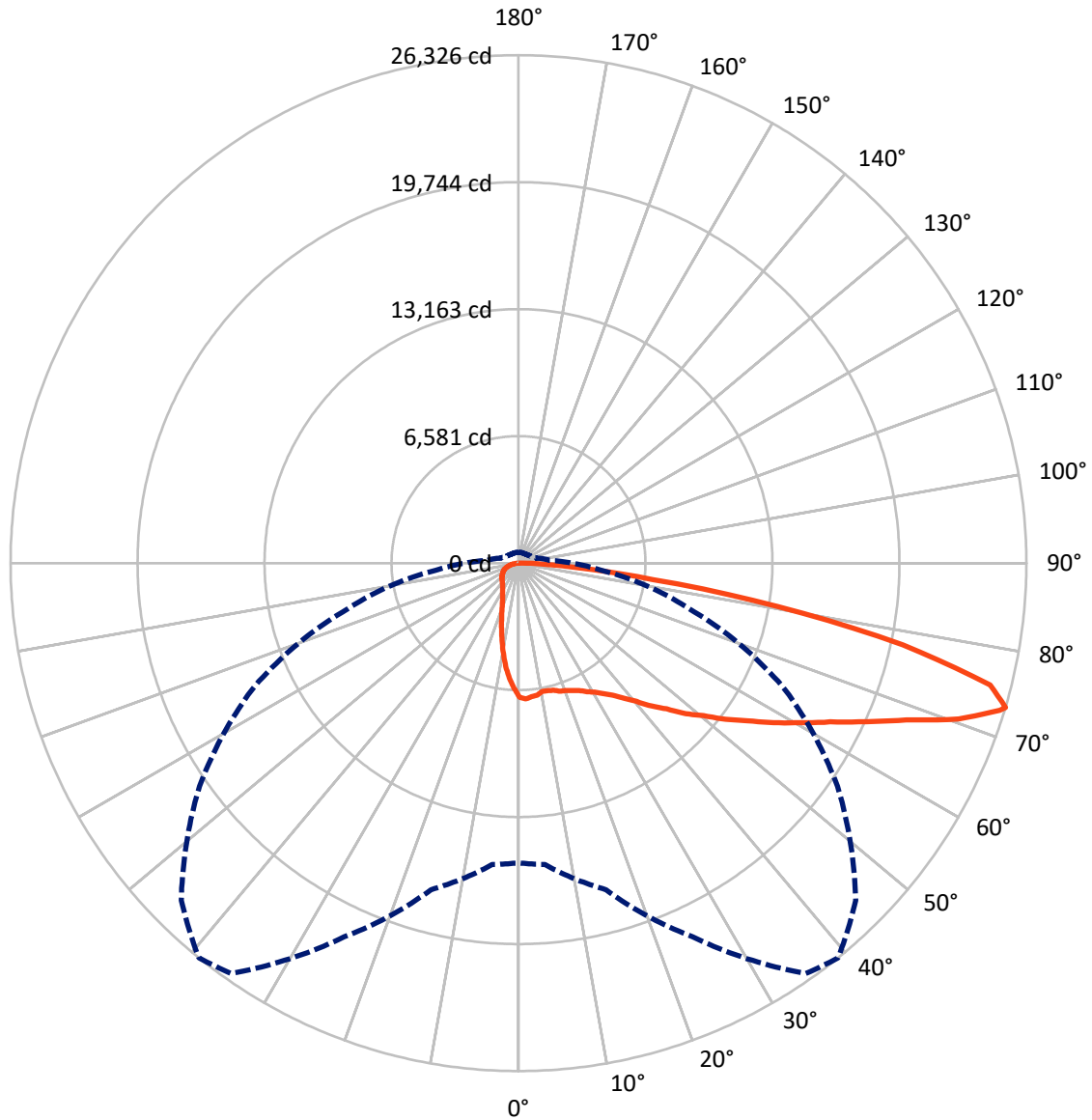
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.7 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	5488.9	0.0	5488.9
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	33558.0	0.0	33558.0
	% Fixture	85.9	0.0	85.9
Total	Lumens	39046.8	0.0	39046.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	603.4	1.5
10°-20°	1533.8	3.9
20°-30°	2343.9	6.0
30°-40°	3417.4	8.8
40°-50°	5164.1	13.2
50°-60°	7477.9	19.2
60°-70°	9501.1	24.3
70°-80°	7702.1	19.7
80°-90°	1303.2	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°	39046.8	100.0
0°-180°	39046.8	100.0

Coefficient of Utilization



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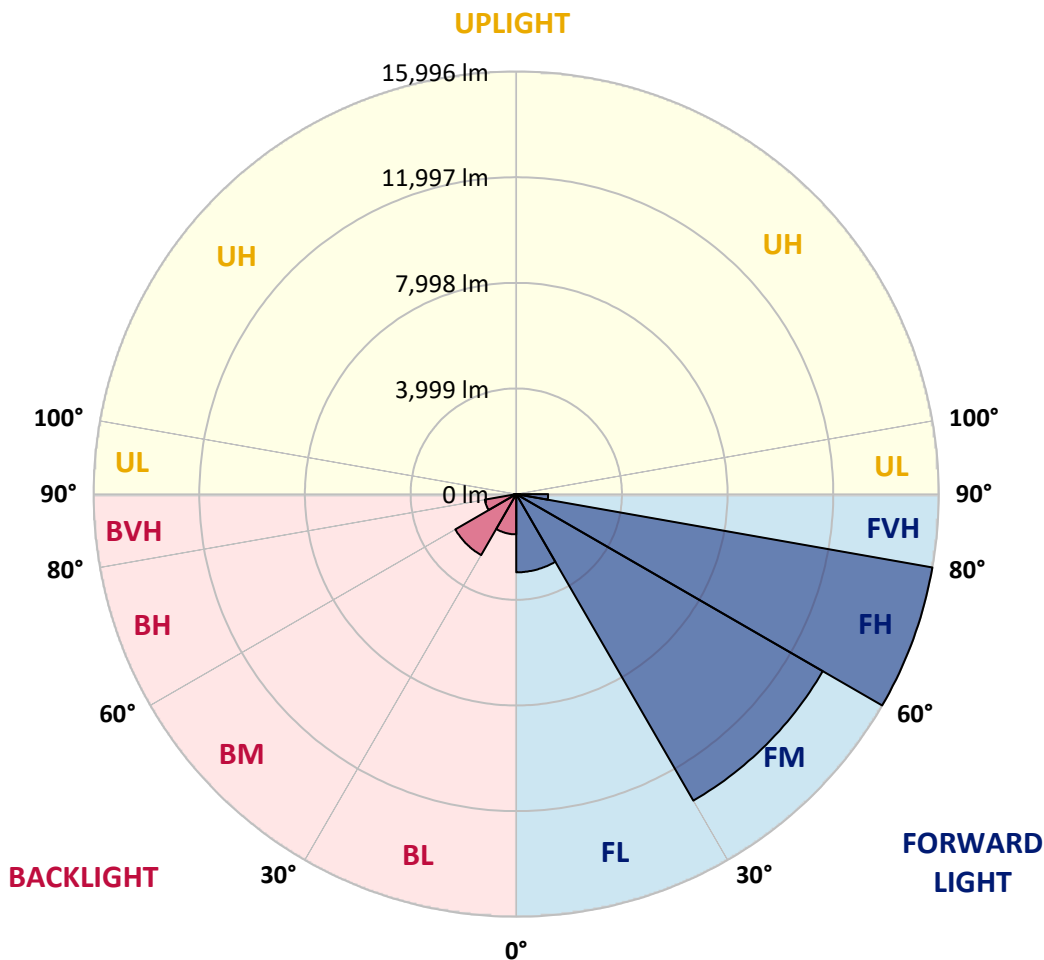
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2958.9	7.6			
FM (30°-60°)	13395.6	34.3			
FH (60°-80°)	15995.9	41.0			G5
FVH (80°-90°)	1207.6	3.1			G5
BL (0°-30°)	1522.2	3.9	B3/2500		
BM (30°-60°)	2663.9	6.8	B3/5000		
BH (60°-80°)	1207.2	3.1	B3/2500		G3/2500
BVH (80°-90°)	95.6	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°	6950.6	6950.6	6950.6	6950.6	6950.6	6950.6	6950.6	6950.6	6950.6	6950.6	6950.6
2.5°	7116.6	7042.3	7055.4	7029.2	7055.4	7046.7	7033.6	6968.1	7033.6	6968.1	6950.6
5°	7020.5	7020.5	7064.2	6998.6	7007.4	6963.7	7007.4	6959.3	6915.6	6806.4	6775.8
7.5°	6989.9	6985.5	6989.9	6898.2	6941.8	6915.6	6871.9	6819.5	6732.1	6662.2	6561.8
10°	6780.2	6823.9	6775.8	6802.0	6837.0	6758.4	6754.0	6740.9	6701.6	6609.8	6548.7
12.5°	6666.6	6740.9	6767.1	6745.2	6775.8	6784.6	6758.4	6740.9	6692.8	6631.7	6456.9
15°	6714.7	6627.3	6701.6	6845.7	6815.1	6837.0	6841.4	6823.9	6802.0	6688.5	6574.9
17.5°	6727.8	6675.3	6832.6	6863.2	6902.5	6981.2	6928.7	6924.4	6841.4	6762.7	6596.7
20°	6758.4	6736.5	6863.2	7024.8	7029.2	7042.3	7068.5	7003.0	6959.3	6823.9	6570.5
22.5°	6871.9	6946.2	7064.2	7134.1	7173.4	7182.1	7182.1	7051.1	7003.0	6893.8	6692.8
25°	7212.7	7134.1	7300.1	7383.1	7326.3	7313.2	7282.6	7164.6	7112.2	7016.1	6749.6
27.5°	7461.7	7457.3	7553.5	7667.0	7514.1	7544.7	7435.5	7400.6	7282.6	7230.2	6850.1
30°	7802.5	7898.6	7894.2	7929.2	7728.2	7763.2	7623.4	7557.8	7492.3	7522.9	7147.2
32.5°	8239.3	8204.4	8261.2	8235.0	8034.0	8064.6	7898.6	7798.1	7819.9	7911.7	7553.5
35°	8518.9	8484.0	8505.8	8505.8	8444.7	8409.7	8339.8	8208.8	8313.6	8484.0	8007.8
37.5°	8820.4	8864.1	8990.8	8964.5	8885.9	8885.9	8877.2	8785.4	8920.9	9340.2	8733.0
40°	9086.9	9204.8	9283.5	9335.9	9427.6	9427.6	9501.9	9449.5	9694.1	10366.9	9619.8
42.5°	9366.5	9370.8	9799.0	9838.3	10043.6	10131.0	10187.8	10231.5	10690.2	11441.6	10567.8
45°	9724.7	9746.5	10122.2	10423.7	10742.6	10773.2	10987.2	11131.4	11695.0	12616.8	11598.9
47.5°	10196.5	10170.3	10572.2	11052.8	11450.3	11660.0	11917.8	12075.0	12769.7	13892.4	12726.0
50°	10816.9	10738.2	10969.8	11725.5	12193.0	12424.5	12883.2	13145.4	13957.9	15111.3	13499.2
52.5°	11572.6	11441.6	11625.1	12450.7	12975.0	13442.4	13879.3	14172.0	15019.5	16054.9	14071.5
55°	12372.1	12101.3	12153.7	13219.6	13975.4	14416.7	15015.2	15321.0	16186.0	16902.4	14643.8
57.5°	13162.8	12992.5	12887.6	13957.9	15168.1	15591.8	16142.3	16539.8	17273.8	17653.9	15128.8
60°	13826.9	13783.2	13612.8	15102.5	16430.6	16793.2	17369.9	17614.5	18169.4	18348.5	15137.5
62.5°	14373.0	14224.4	14495.3	16024.3	17715.0	18125.7	18759.1	18781.0	19174.2	18781.0	14691.9
65°	14801.1	14809.8	15242.3	17138.3	19200.4	19807.6	20318.7	20262.0	20008.6	18523.2	13639.0
67.5°	15189.9	15355.9	15989.4	18361.6	21109.5	21681.8	22249.7	21498.3	20235.7	17317.5	11581.4
70°	15495.7	15661.7	16998.5	19851.3	23359.4	24198.1	24324.8	21987.6	19191.6	14670.0	8737.4
72.5°	15460.8	15762.2	17570.8	21039.6	25355.8	26081.0	25058.8	20611.5	15989.4	10227.1	5098.3
73°	15535.0	15683.6	17522.8	21371.6	25963.1	26325.7	24718.0	20179.0	15080.7	9174.2	4311.9
75°	14102.1	14604.5	16653.4	20829.9	25312.2	25246.6	22760.8	16815.1	10720.7	4818.7	2088.2
77.5°	10432.4	10751.3	13123.5	17129.6	20777.5	20358.1	17168.9	10747.0	5089.5	1786.8	1127.1
80°	5098.3	5347.3	6954.9	9890.7	13586.6	13621.6	10655.2	5591.9	2180.0	1009.2	768.9
82.5°	2546.9	2695.5	3342.0	4346.8	6684.1	7003.0	5404.1	3180.4	1349.9	572.3	436.9
85°	1664.5	1769.3	2057.7	2127.5	2835.3	2992.5	2516.4	2481.4	878.1	310.2	353.9
87.5°	1105.3	1122.8	1262.5	1074.7	1135.9	1092.2	1214.5	1564.0	257.8	131.1	96.1
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°	6950.6	6950.6	6950.6	6950.6	6950.6	6950.6	6950.6	6950.6	6950.6	6950.6	6950.6
2.5°	6928.7	6867.6	6802.0	6710.3	6644.8	6544.3	6452.5	6413.2	6404.5	6408.9	6365.2
5°	6749.6	6662.2	6531.2	6343.3	6234.1	6068.1	5928.3	5854.0	5775.4	5788.5	5753.6
7.5°	6500.6	6404.5	6203.5	5985.1	5714.2	5478.3	5347.3	5163.8	5058.9	4980.3	5024.0
10°	6422.0	6256.0	5954.5	5653.1	5233.7	4923.5	4622.1	4412.4	4268.2	4128.4	4189.6
12.5°	6382.6	6216.6	5797.2	5351.6	4809.9	4338.1	3914.3	3656.6	3451.3	3328.9	3377.0
15°	6347.7	6142.4	5648.7	5019.6	4412.4	3792.0	3315.8	2975.1	2778.5	2660.5	2673.6
17.5°	6395.8	6103.1	5430.3	4696.3	3975.5	3311.5	2782.9	2429.0	2228.0	2153.8	2136.3
20°	6347.7	6059.4	5216.2	4373.1	3538.6	2852.8	2346.0	2053.3	1913.5	1852.3	1839.2
22.5°	6365.2	5954.5	4993.4	4014.8	3132.3	2468.3	2053.3	1830.5	1721.3	1690.7	1699.4
25°	6448.2	5893.4	4770.6	3621.6	2730.4	2184.3	1865.4	1695.0	1616.4	1585.8	1594.6
27.5°	6509.3	5945.8	4569.6	3250.3	2389.7	1931.0	1708.2	1594.6	1542.1	1520.3	1515.9
30°	6662.2	5976.4	4373.1	2918.3	2110.1	1764.9	1598.9	1507.2	1472.2	1459.1	1454.8
32.5°	6889.4	6033.2	4145.9	2612.5	1904.7	1607.7	1511.6	1432.9	1424.2	1411.1	1415.5
35°	7260.8	6229.7	3892.5	2350.4	1708.2	1502.8	1419.8	1367.4	1367.4	1367.4	1380.5
37.5°	7793.7	6505.0	3665.3	2101.3	1581.5	1411.1	1341.2	1323.7	1315.0	1328.1	1336.8
40°	8479.6	6837.0	3481.8	1904.7	1472.2	1349.9	1288.8	1280.0	1275.7	1271.3	1280.0
42.5°	9231.0	7260.8	3324.6	1751.8	1393.6	1284.4	1240.7	1232.0	1214.5	1223.2	1236.3
45°	9978.1	7785.0	3184.8	1629.5	1341.2	1249.4	1188.3	1183.9	1175.2	1170.8	1192.7
47.5°	10808.1	8300.5	3141.1	1555.3	1301.9	1197.0	1153.3	1149.0	1122.8	1118.4	1135.9
50°	11454.7	8680.6	3189.1	1520.3	1245.1	1157.7	1127.1	1105.3	1083.4	1061.6	1061.6
52.5°	11900.3	8942.7	3224.1	1494.1	1214.5	1105.3	1066.0	1057.2	1035.4	1013.5	1004.8
55°	12302.2	9100.0	3232.8	1498.5	1183.9	1044.1	1017.9	1013.5	1000.4	965.5	956.7
57.5°	12437.6	9034.4	3058.1	1459.1	1166.4	1004.8	969.8	978.6	961.1	930.5	926.2
60°	12424.5	8580.1	2660.5	1406.7	1127.1	961.1	917.4	943.6	943.6	908.7	904.3
62.5°	11668.8	7531.6	2175.6	1306.2	1083.4	917.4	869.4	908.7	921.8	899.9	895.6
65°	10100.4	6133.6	1817.4	1205.8	1017.9	869.4	821.3	865.0	886.8	878.1	873.7
67.5°	8357.3	4692.0	1511.6	1074.7	934.9	803.8	764.5	795.1	808.2	812.6	816.9
70°	5906.5	3123.6	1262.5	930.5	821.3	733.9	690.3	694.6	690.3	703.4	703.4
72.5°	3211.0	1799.9	1026.6	790.7	707.7	637.8	607.2	585.4	585.4	581.0	581.0
73°	2747.9	1616.4	978.6	768.9	677.1	620.4	585.4	567.9	567.9	563.6	559.2
75°	1542.1	1183.9	838.8	659.7	585.4	541.7	515.5	489.3	484.9	484.9	484.9
77.5°	1013.5	921.8	668.4	528.6	471.8	432.5	423.8	397.6	397.6	397.6	393.2
80°	760.2	725.2	515.5	401.9	362.6	332.0	323.3	305.8	301.4	284.0	288.3
82.5°	506.8	572.3	375.7	284.0	244.6	227.2	227.2	222.8	209.7	187.9	187.9
85°	401.9	467.4	270.9	174.7	144.2	122.3	126.7	122.3	118.0	96.1	91.7
87.5°	74.3	187.9	78.6	48.1	34.9	21.8	21.8	13.1	8.7	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)