

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: P483916

Luminaire Tested: **IFLD-L-SA7C-727-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483916
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-727-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

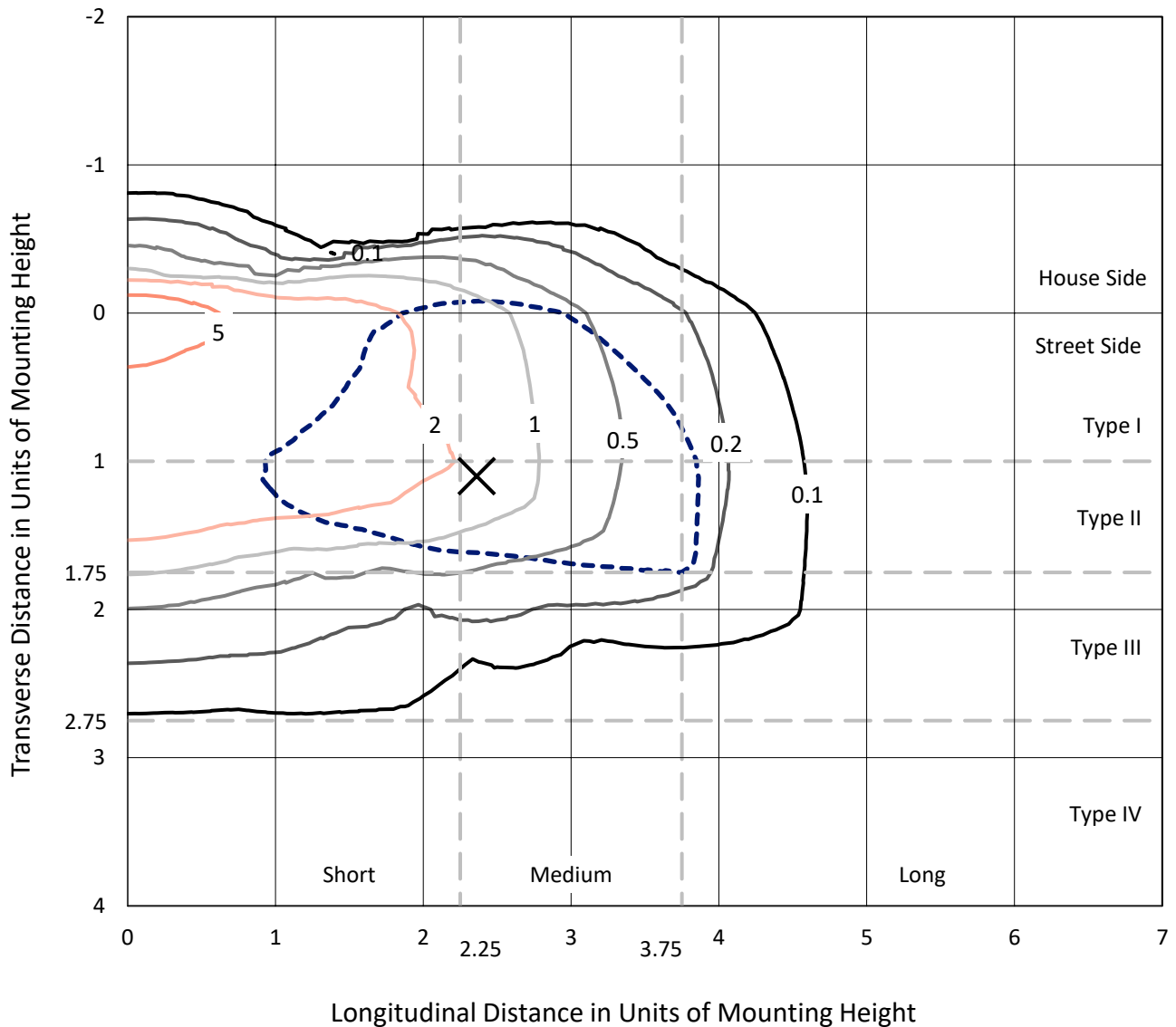
Lumens per Lamp: N/A
Luminaire Lumens: 30513.8 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

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

REPORT NUMBER: P483916
 CATALOG NUMBER: IFLD-L-SA7C-727-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

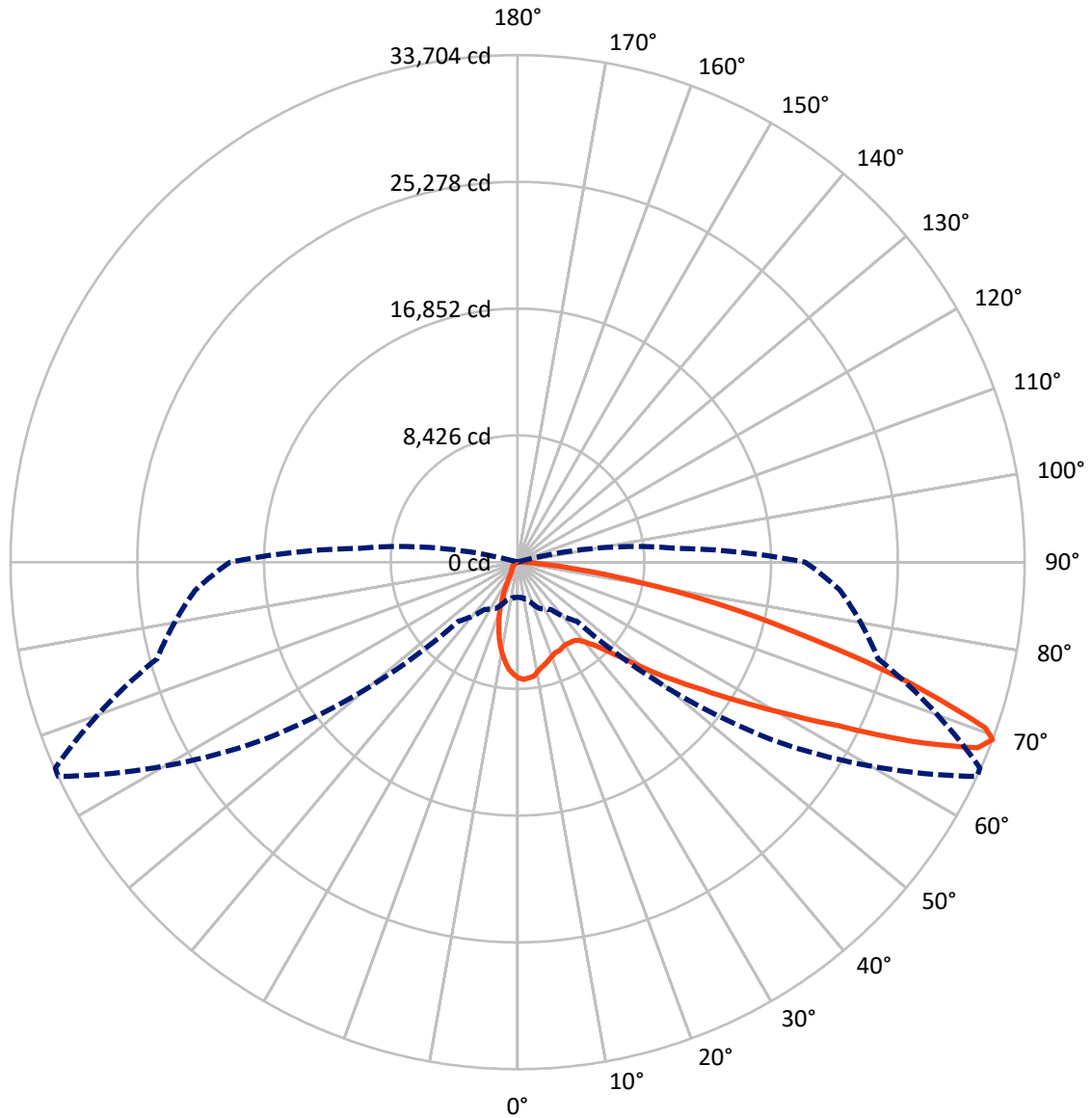
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.5 fc
 Type II - Medium - N/A

REPORT NUMBER: P483916
CATALOG NUMBER: IFLD-L-SA7C-727-U-SL2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P483916
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3701.5	0.0	3701.5
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	26812.3	0.0	26812.3
	% Fixture	87.9	0.0	87.9
Total	Lumens	30513.8	0.0	30513.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	629.6	2.1
10°-20°	1377.5	4.5
20°-30°	1917.7	6.3
30°-40°	2717.6	8.9
40°-50°	4282.9	14.0
50°-60°	6949.6	22.8
60°-70°	7761.3	25.4
70°-80°	4370.5	14.3
80°-90°	507.1	1.7
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°	30513.8	100.0
0°-180°	30513.8	100.0

Coefficient of Utilization



REPORT NUMBER: P483916

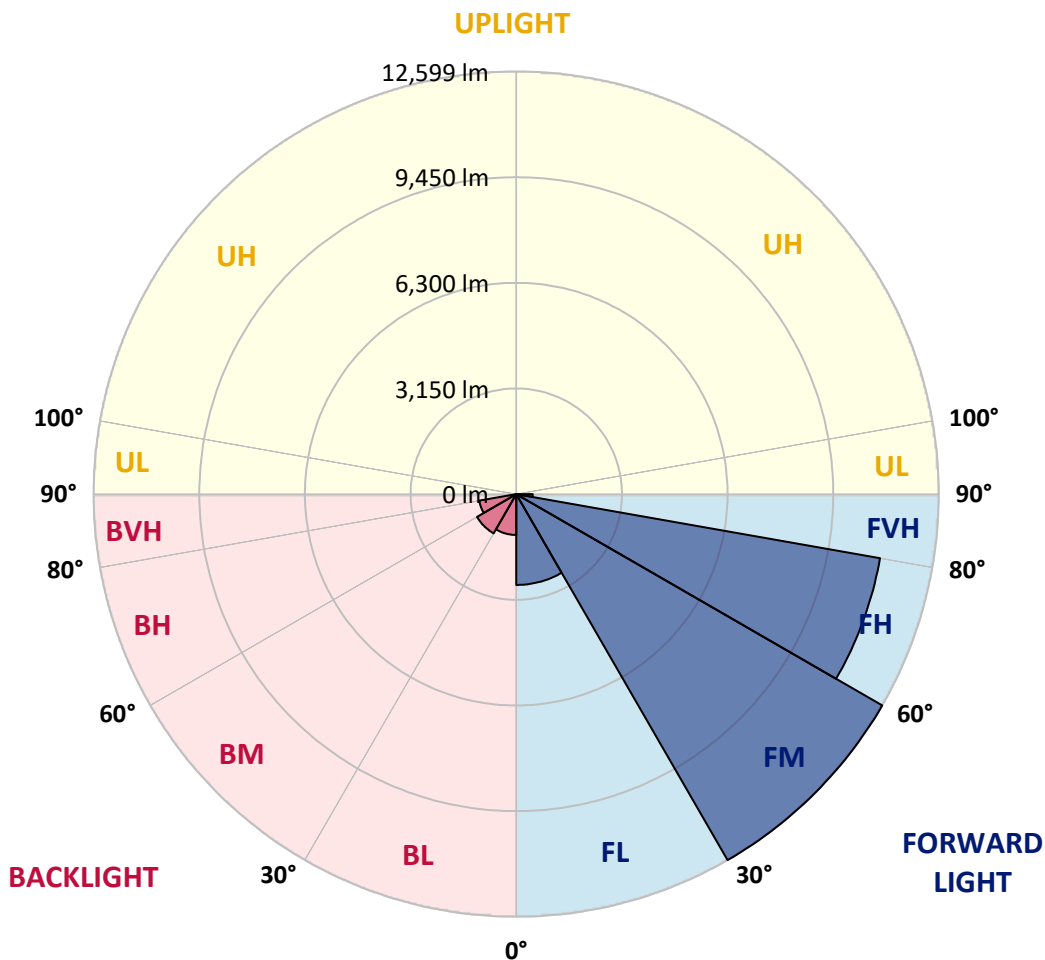
CATALOG NUMBER: IFLD-L-SA7C-727-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2707.8	8.9			
FM (30°-60°)	12599.4	41.3			
FH (60°-80°)	11011.9	36.1			G4/12000
FVH (80°-90°)	493.2	1.6			G3/500
BL (0°-30°)	1216.9	4.0	B3/2500		
BM (30°-60°)	1350.7	4.4	B2/2500		
BH (60°-80°)	1119.9	3.7	B3/2500		G3/2500
BVH (80°-90°)	14.0	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium





REPORT NUMBER: P483916

CATALOG NUMBER: IFLD-L-SA7C-727-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	7693.2	7693.2	7693.2	7693.2	7693.2	7693.2	7693.2	7693.2	7693.2	7693.2	7693.2
2.5°	7409.2	7466.8	7483.3	7540.9	7569.7	7693.2	7763.2	7804.4	7783.8	7829.1	7833.2
5°	6882.3	6849.4	6935.8	6997.6	7129.3	7343.3	7561.5	7730.3	7808.5	7882.6	7870.2
7.5°	6318.4	6301.9	6388.4	6528.3	6647.7	6907.0	7256.9	7672.6	7656.2	7837.3	7890.8
10°	5931.5	5947.9	5976.8	6116.7	6293.7	6557.1	6993.5	7380.4	7466.8	7849.6	7956.7
12.5°	5577.5	5606.3	5659.8	5803.9	6009.7	6281.4	6705.3	7158.1	7289.8	7779.7	7993.7
15°	5462.2	5396.4	5503.4	5610.4	5824.5	6067.3	6425.4	6989.4	7047.0	7697.3	8055.5
17.5°	5367.6	5326.4	5375.8	5462.2	5688.6	5886.2	6223.7	6808.2	6915.3	7664.4	8047.2
20°	5396.4	5359.3	5379.9	5445.8	5548.7	5733.9	6046.7	6635.4	6750.6	7512.1	8034.9
22.5°	5478.7	5507.5	5470.5	5486.9	5519.9	5614.5	5952.1	6511.9	6610.7	7483.3	8104.8
25°	5849.2	5799.8	5750.4	5729.8	5536.3	5577.5	5923.2	6503.6	6573.6	7380.4	8047.2
27.5°	6236.1	6194.9	6174.3	6055.0	5791.5	5668.0	5927.4	6388.4	6483.1	7339.2	7977.2
30°	6705.3	6758.8	6676.5	6532.5	6166.1	5861.5	5972.6	6330.8	6462.5	7182.8	7932.0
32.5°	7199.3	7228.1	7269.3	7162.2	6688.9	6153.8	6108.5	6384.3	6392.5	7182.8	7829.1
35°	7759.1	7717.9	7824.9	7833.2	7417.4	6672.4	6367.8	6421.3	6507.8	7149.9	7792.0
37.5°	8240.7	8310.7	8434.1	8631.7	8203.6	7405.1	6771.2	6594.2	6631.2	7302.2	7820.8
40°	8767.6	8837.5	9117.4	9315.0	9072.2	8228.3	7384.5	6997.6	7026.4	7528.6	7969.0
42.5°	9347.9	9483.8	9817.2	10163.0	10097.1	9273.9	8174.8	7590.3	7578.0	8092.5	8273.6
45°	10134.1	10315.3	10677.5	11076.8	11134.4	10471.7	9228.6	8475.3	8516.5	8829.3	8903.4
47.5°	11229.1	11220.8	11574.8	12019.4	12352.8	11714.8	10488.1	9664.9	9660.8	9994.2	9837.8
50°	12286.9	12291.1	12385.7	12900.3	13764.7	13439.5	12048.2	11245.5	11200.3	11364.9	11113.8
52.5°	12776.8	12719.1	12649.2	13270.7	14851.3	15612.8	14024.0	13036.1	12999.0	12900.3	12834.4
55°	12262.2	12282.8	12278.7	12925.0	15423.5	17905.6	16559.6	15007.8	14946.0	14637.3	14727.9
57.5°	10611.6	10545.8	10689.8	11698.3	14769.0	19469.8	20186.0	17494.0	17333.4	16308.5	16102.7
60°	7899.0	7919.6	8039.0	9228.6	13143.1	19799.0	23656.0	20412.4	19720.8	17485.7	17201.7
62.5°	5515.7	5474.6	5519.9	6186.7	9397.3	18481.9	26002.2	23960.6	23293.7	18823.5	18658.9
65°	3947.5	3894.0	4075.1	4482.6	5643.3	14131.0	26335.6	28686.0	28089.1	20959.8	20564.7
67.5°	2840.2	2832.0	3041.9	3782.8	4009.2	8137.8	23865.9	32966.9	32604.6	23495.4	21725.4
69°	2350.4	2354.5	2556.2	3387.7	3828.1	5556.9	20535.9	33703.7	33637.8	24804.4	21507.3
70°	2049.9	2066.3	2301.0	3153.0	3754.0	4569.0	17703.9	32979.2	32913.3	25059.6	20786.9
72.5°	1263.7	1276.0	1584.7	2527.4	3568.8	3729.3	10586.9	26981.9	27208.3	23890.6	17909.7
75°	605.1	609.2	831.5	1827.6	3441.2	3535.8	5672.2	19910.2	20387.7	19288.6	13995.2
77.5°	321.1	321.1	399.3	971.4	2786.7	3325.9	3367.1	14044.6	14439.7	12196.4	7956.7
80°	160.5	164.6	242.9	506.3	1728.8	3260.1	2630.3	8376.5	8590.6	4976.5	2478.0
82.5°	61.7	65.9	115.3	304.6	897.3	2753.8	2309.2	4120.3	4066.8	1164.9	605.1
85°	8.2	8.2	41.2	181.1	382.8	1214.3	1905.8	1720.6	1663.0	255.2	292.3
87.5°	0.0	0.0	8.2	53.5	115.3	354.0	736.8	473.4	526.9	70.0	144.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P483916

CATALOG NUMBER: IFLD-L-SA7C-727-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7693.2	7693.2	7693.2	7693.2	7693.2	7693.2	7693.2	7693.2	7693.2	7693.2	7693.2
2.5°	7812.6	7726.2	7594.4	7466.8	7331.0	7166.3	6985.2	6919.4	6804.1	6795.9	6861.7
5°	7804.4	7664.4	7433.9	7162.2	6775.3	6483.1	6166.1	5935.6	5758.6	5643.3	5672.2
7.5°	7845.5	7676.8	7277.5	6693.0	6194.9	5614.5	5124.7	4787.2	4478.5	4326.2	4309.7
10°	7779.7	7553.3	6968.8	6149.6	5417.0	4606.1	3889.8	3437.0	2976.0	2807.3	2815.5
12.5°	7816.7	7499.8	6635.4	5589.8	4581.4	3527.6	2671.4	2054.0	1621.8	1481.8	1465.4
15°	7841.4	7384.5	6314.3	4918.9	3655.2	2403.9	1547.7	1164.9	1029.1	1004.4	1000.2
17.5°	7746.7	7244.6	5861.5	4256.2	2708.5	1461.3	1029.1	950.8	926.2	909.7	901.5
20°	7742.6	7162.2	5470.5	3577.0	1807.0	996.1	889.1	860.3	823.2	810.9	810.9
22.5°	7672.6	6989.4	5001.2	2832.0	1152.5	856.2	798.5	753.3	712.1	695.6	691.5
25°	7652.1	6787.7	4560.8	2128.1	876.8	765.6	708.0	642.1	592.7	568.0	555.7
27.5°	7594.4	6614.8	4116.2	1498.3	765.6	683.3	609.2	539.2	481.6	444.6	440.4
30°	7388.6	6433.7	3622.3	1037.3	695.6	605.1	522.8	440.4	382.8	358.1	349.9
32.5°	7302.2	6264.9	3083.1	798.5	633.9	535.1	440.4	366.3	321.1	296.4	292.3
35°	7199.3	6017.9	2560.3	695.6	576.3	465.1	370.5	308.7	271.7	251.1	251.1
37.5°	7211.6	5820.3	2070.5	629.8	514.5	399.3	316.9	263.4	230.5	209.9	209.9
40°	7174.6	5663.9	1609.4	572.2	456.9	341.6	267.6	222.3	193.5	172.9	168.8
42.5°	7343.3	5622.8	1214.3	522.8	399.3	292.3	230.5	189.3	160.5	135.8	135.8
45°	7627.4	5688.6	946.7	477.5	341.6	251.1	197.6	156.4	127.6	111.1	107.0
47.5°	8384.8	5947.9	740.9	440.4	292.3	218.2	164.6	127.6	102.9	86.4	82.3
50°	9483.8	6528.3	629.8	386.9	247.0	185.2	135.8	98.8	82.3	65.9	61.7
52.5°	11048.0	7503.9	572.2	341.6	205.8	152.3	107.0	78.2	61.7	49.4	45.3
55°	12752.1	8722.3	518.6	288.1	172.9	123.5	86.4	61.7	45.3	32.9	28.8
57.5°	14081.6	9776.0	473.4	238.7	140.0	98.8	65.9	45.3	32.9	20.6	16.5
60°	15534.6	10517.0	415.7	189.3	115.3	74.1	49.4	32.9	24.7	12.3	12.3
62.5°	17032.9	11385.5	341.6	148.2	90.6	57.6	37.0	24.7	16.5	4.1	4.1
65°	19115.8	12064.7	263.4	115.3	70.0	41.2	28.8	20.6	8.2	0.0	0.0
67.5°	19704.4	11731.2	193.5	90.6	49.4	28.8	20.6	12.3	4.1	0.0	0.0
69°	19115.8	10566.4	168.8	78.2	41.2	24.7	16.5	8.2	4.1	0.0	0.0
70°	18041.4	9660.8	148.2	65.9	37.0	24.7	12.3	8.2	4.1	0.0	0.0
72.5°	15090.1	7409.2	115.3	49.4	28.8	20.6	12.3	8.2	0.0	0.0	0.0
75°	11068.5	4577.2	86.4	37.0	24.7	16.5	12.3	8.2	0.0	0.0	0.0
77.5°	5931.5	1671.2	61.7	24.7	16.5	12.3	12.3	8.2	0.0	0.0	0.0
80°	1625.9	493.9	45.3	16.5	12.3	8.2	8.2	4.1	0.0	0.0	0.0
82.5°	444.6	127.6	28.8	16.5	12.3	8.2	4.1	0.0	0.0	0.0	0.0
85°	238.7	49.4	16.5	12.3	8.2	4.1	0.0	0.0	0.0	0.0	0.0
87.5°	123.5	16.5	12.3	8.2	8.2	4.1	0.0	0.0	0.0	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)