

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: P484500

Luminaire Tested: **IFLD-L-SA7B-760-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484500
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-760-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (112) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

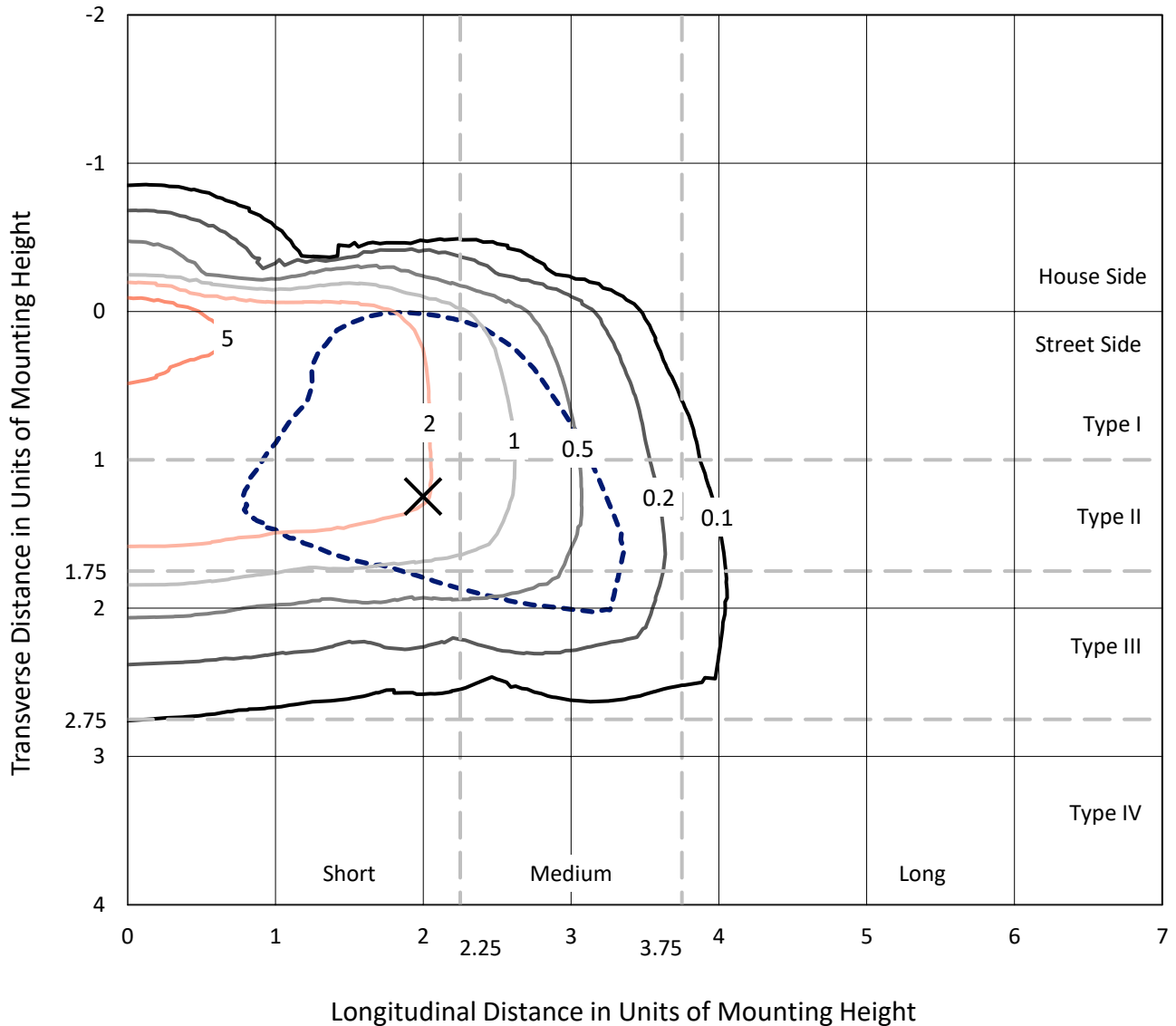
Lumens per Lamp: N/A
Luminaire Lumens: 30464.2 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 281
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

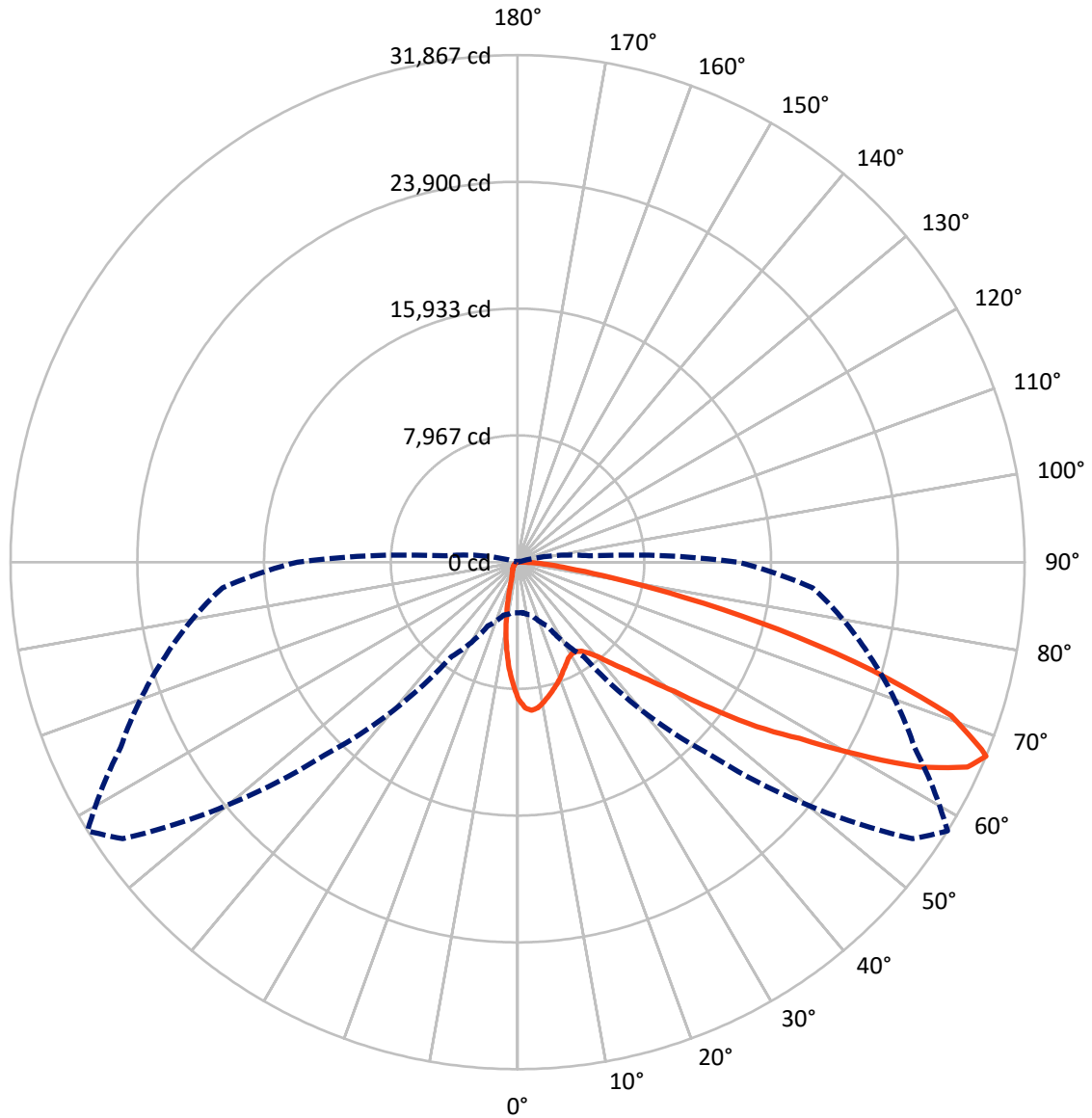
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2518.1	0.0	2518.1
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	27946.2	0.0	27946.2
	% Fixture	91.7	0.0	91.7
Total	Lumens	30464.2	0.0	30464.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	684.8	2.2
10°-20°	1420.5	4.7
20°-30°	1884.6	6.2
30°-40°	2611.5	8.6
40°-50°	4261.2	14.0
50°-60°	7489.9	24.6
60°-70°	8295.6	27.2
70°-80°	3437.7	11.3
80°-90°	378.4	1.2
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°	30464.2	100.0
0°-180°	30464.2	100.0



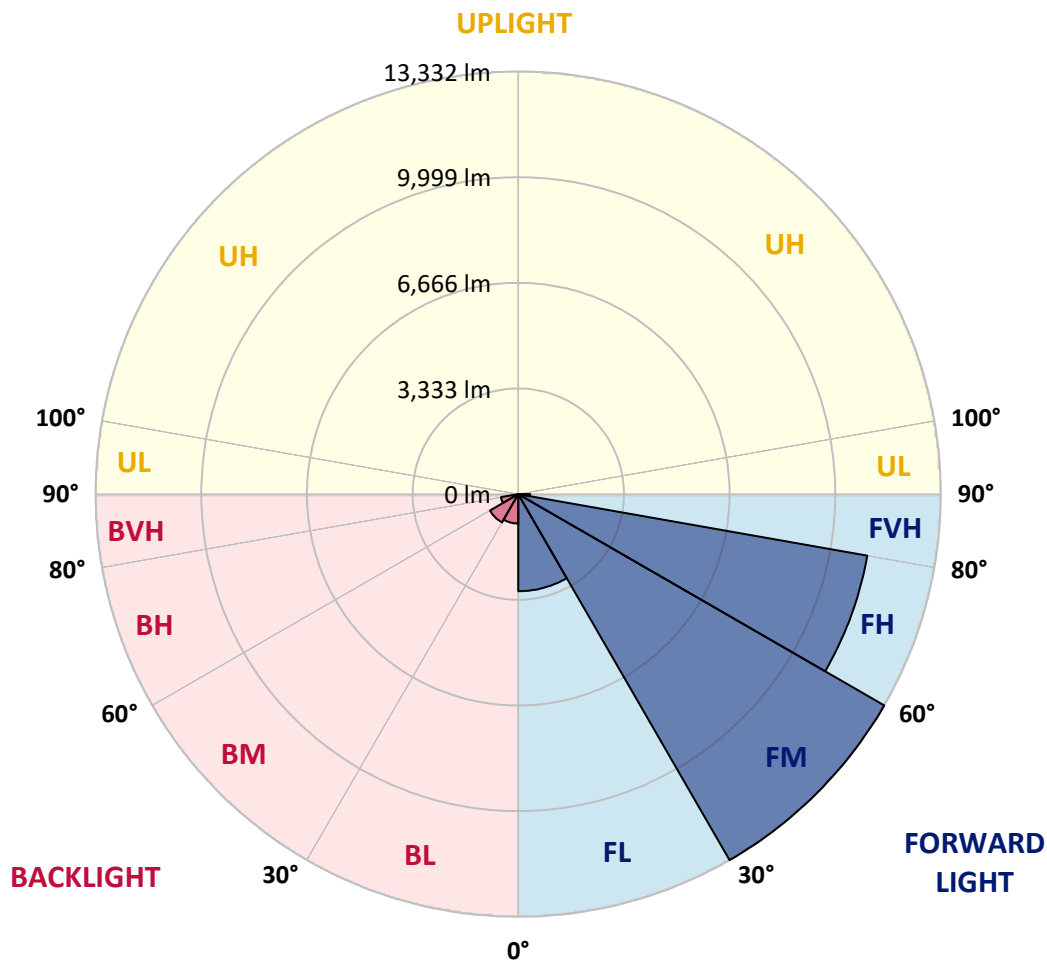
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3062.5	10.1			
FM (30°-60°)	13331.8	43.8			
FH (60°-80°)	11179.7	36.7			G4/12000
FVH (80°-90°)	372.2	1.2			G3/500
BL (0°-30°)	927.4	3.0	B2/1000		
BM (30°-60°)	1030.8	3.4	B2/2500		
BH (60°-80°)	553.6	1.8	B2/1000		G2/1000
BVH (80°-90°)	6.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	8630.9	8630.9	8630.9	8630.9	8630.9	8630.9	8630.9	8630.9	8630.9	8630.9	8630.9
2.5°	9391.3	9423.6	9452.0	9399.4	9443.9	9379.2	9213.3	9176.9	9148.6	8901.9	8760.4
5°	9387.2	9350.8	9379.2	9403.4	9342.8	9391.3	9350.8	9354.9	9245.7	9023.2	8626.9
7.5°	8760.4	8744.2	8760.4	8877.6	9011.1	9116.3	9176.9	9237.6	9164.8	8833.2	8448.9
10°	7915.1	7995.9	8040.4	8250.7	8457.0	8651.2	8841.2	8954.5	8934.3	8800.8	8254.8
12.5°	7324.6	7300.3	7462.1	7599.6	7805.9	8198.2	8529.8	8635.0	8756.3	8570.3	8000.0
15°	6778.6	6713.8	6810.9	7049.5	7401.4	7712.8	8177.9	8335.7	8489.4	8537.9	7862.5
17.5°	6256.8	6289.2	6390.3	6604.6	6936.3	7373.1	7809.9	8036.4	8404.4	8339.7	7656.2
20°	6006.1	6074.8	6111.2	6220.4	6451.0	6887.8	7538.9	7720.9	8113.2	8335.7	7454.0
22.5°	6018.2	6018.2	5933.3	5998.0	6208.3	6548.0	7170.9	7373.1	7995.9	8125.4	7272.0
25°	6147.6	6066.7	6070.8	5993.9	6082.9	6269.0	6839.2	7085.9	7757.3	8145.6	7174.9
27.5°	6244.7	6228.5	6204.2	6184.0	6070.8	6099.1	6620.8	6823.0	7664.3	8121.3	7025.3
30°	6596.6	6523.8	6499.5	6455.0	6305.4	6167.8	6446.9	6701.7	7591.5	8177.9	6940.3
32.5°	6891.8	6903.9	6924.2	6794.7	6665.3	6325.6	6495.4	6697.7	7538.9	8307.4	7025.3
35°	7263.9	7316.5	7324.6	7284.1	7146.6	6810.9	6697.7	6871.6	7627.9	8537.9	7033.4
37.5°	7830.1	7773.5	7927.2	7943.4	7846.3	7401.4	7166.8	7235.6	7890.8	8906.0	7340.7
40°	8198.2	8266.9	8554.1	8732.0	8566.2	8161.8	7846.3	7834.2	8271.0	9484.3	7720.9
42.5°	8606.7	8760.4	9075.8	9460.0	9439.8	9063.7	8744.2	8691.6	8946.4	10321.5	8323.5
45°	9164.8	9302.3	9743.2	10321.5	10637.0	10317.5	9836.2	9731.0	9767.4	11462.1	9350.8
47.5°	10091.0	10054.6	10689.6	11259.8	11777.5	11530.8	11324.6	11017.2	10988.9	12804.8	10770.5
50°	11138.5	11130.4	11696.7	12343.8	12942.4	13423.6	13079.9	12744.2	12752.3	14628.9	12440.8
52.5°	12133.5	12291.2	12901.9	13545.0	14572.3	15090.0	15421.6	15288.2	14645.1	16258.8	14228.5
55°	12659.2	12796.7	13403.4	14511.6	16133.4	17464.1	18362.0	18248.7	17007.1	18095.0	15991.9
57.5°	12161.8	12254.8	13075.8	14527.8	17225.5	20194.1	21055.6	20914.0	19449.9	19498.5	18123.3
60°	10078.9	10224.5	11445.9	13148.6	16800.8	22297.2	24764.4	24550.0	21674.4	21274.0	19494.4
62.5°	6980.8	7077.8	8080.9	10200.2	14786.6	23029.3	28266.9	28384.2	24020.2	22657.2	19902.9
65°	4521.7	4513.6	5088.0	6523.8	10479.3	20812.9	30337.7	31065.7	26285.1	22867.5	19777.5
67°	3195.1	3183.0	3454.0	4424.7	7255.8	17148.6	30301.3	31866.5	27514.6	22928.2	18616.8
67.5°	2948.4	2936.3	3195.1	4068.8	6548.0	15947.4	29848.3	31454.0	27947.4	22843.3	18107.2
70°	2289.2	2256.8	2353.9	2802.8	3813.9	10313.4	25545.0	28893.8	27049.5	20723.9	14459.0
72.5°	1654.2	1690.6	1844.3	2301.3	2992.9	5549.0	19470.1	23365.0	22592.5	15619.8	9189.1
75°	1152.7	1185.0	1431.7	1876.6	2746.2	3365.0	13164.8	16946.4	15737.1	8622.8	3915.1
77.5°	602.6	643.1	914.1	1500.5	2495.4	2604.6	7866.5	10746.2	8339.7	3069.8	1079.9
80°	279.1	299.3	457.0	1063.7	2087.0	2289.2	4586.4	5977.7	3336.7	687.6	372.1
82.5°	121.3	133.5	210.3	610.7	1480.3	2002.0	2839.2	3134.5	1209.3	222.4	230.5
85°	24.3	28.3	80.9	323.6	715.9	1213.3	1993.9	1860.5	606.7	109.2	182.0
87.5°	0.0	0.0	20.2	93.0	194.1	360.0	845.3	845.3	186.0	56.6	68.8
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°	8630.9	8630.9	8630.9	8630.9	8630.9	8630.9	8630.9	8630.9	8630.9	8630.9	8630.9
2.5°	8635.0	8489.4	8169.9	7874.6	7664.3	7425.7	7110.2	6968.6	6916.1	6843.3	6734.1
5°	8408.5	8230.5	7684.5	7134.5	6531.8	6074.8	5589.5	5306.4	5092.0	4958.5	4914.0
7.5°	8089.0	7725.0	6988.9	6107.2	5326.6	4647.1	3911.0	3413.5	3094.0	2964.6	2843.3
10°	7834.2	7361.0	6240.6	5144.6	4105.2	3110.2	2281.1	1844.3	1512.6	1387.3	1371.1
12.5°	7502.5	6936.3	5540.9	4161.8	2855.4	1852.4	1261.9	1096.1	1003.0	986.9	974.7
15°	7227.5	6552.1	4877.6	3223.5	1848.3	1156.7	982.8	942.4	918.1	910.0	914.1
17.5°	7041.4	6139.5	4198.2	2345.8	1217.4	946.4	906.0	881.7	869.6	865.5	853.4
20°	6673.4	5791.7	3526.8	1642.1	950.5	873.6	841.3	821.0	808.9	804.9	800.8
22.5°	6463.1	5350.9	2855.4	1144.6	845.3	792.7	768.5	752.3	732.1	719.9	715.9
25°	6252.8	5027.3	2256.8	889.8	768.5	732.1	695.7	675.4	643.1	626.9	622.9
27.5°	6006.1	4707.8	1739.1	772.5	691.6	655.2	618.8	586.5	546.0	529.8	521.7
30°	5864.5	4396.4	1310.4	691.6	635.0	586.5	542.0	501.5	457.0	428.7	420.6
32.5°	5791.7	4113.2	982.8	630.9	574.3	521.7	465.1	416.6	376.1	351.9	347.8
35°	5702.7	3838.2	772.5	574.3	517.7	461.1	404.4	355.9	315.5	295.2	287.2
37.5°	5795.7	3676.4	643.1	529.8	473.2	408.5	347.8	299.3	266.9	246.7	242.7
40°	6050.5	3543.0	558.1	489.4	428.7	360.0	303.3	254.8	226.5	210.3	202.2
42.5°	6442.9	3543.0	505.6	448.9	388.3	315.5	258.8	222.4	194.1	178.0	173.9
45°	7154.7	3652.2	461.1	408.5	339.7	271.0	222.4	186.0	157.7	141.6	137.5
47.5°	8153.7	3902.9	424.7	372.1	303.3	238.6	194.1	157.7	129.4	113.2	109.2
50°	9496.5	4473.2	388.3	327.6	271.0	206.3	161.8	125.4	101.1	84.9	80.9
52.5°	11170.9	5282.1	351.9	303.3	230.5	173.9	129.4	101.1	76.8	64.7	60.7
55°	12942.4	6273.0	307.4	271.0	198.2	145.6	105.2	76.8	56.6	48.5	44.5
57.5°	14726.0	7037.4	271.0	234.6	161.8	117.3	84.9	60.7	40.4	32.4	28.3
60°	15672.4	7110.2	234.6	194.1	129.4	93.0	64.7	44.5	28.3	20.2	16.2
62.5°	15818.0	6463.1	202.2	157.7	105.2	72.8	44.5	32.4	16.2	8.1	8.1
65°	15069.8	5387.3	173.9	125.4	80.9	52.6	32.4	20.2	8.1	4.0	0.0
67°	13856.4	4513.6	149.6	105.2	64.7	40.4	24.3	12.1	4.0	0.0	0.0
67.5°	13387.2	4271.0	141.6	97.1	60.7	36.4	20.2	12.1	4.0	0.0	0.0
70°	10390.3	3049.5	105.2	68.8	44.5	28.3	16.2	8.1	0.0	0.0	0.0
72.5°	6366.0	1783.6	80.9	48.5	32.4	20.2	12.1	4.0	0.0	0.0	0.0
75°	2669.4	614.8	68.8	36.4	24.3	12.1	8.1	4.0	0.0	0.0	0.0
77.5°	695.7	230.5	48.5	24.3	16.2	12.1	8.1	4.0	0.0	0.0	0.0
80°	283.1	105.2	32.4	16.2	16.2	12.1	8.1	4.0	0.0	0.0	0.0
82.5°	186.0	48.5	20.2	16.2	12.1	8.1	4.0	0.0	0.0	0.0	0.0
85°	141.6	28.3	12.1	12.1	8.1	4.0	0.0	0.0	0.0	0.0	0.0
87.5°	60.7	16.2	12.1	8.1	8.1	0.0	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)