

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: P484024

Luminaire Tested: **IFLD-S-SA6D-740-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484024
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-740-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

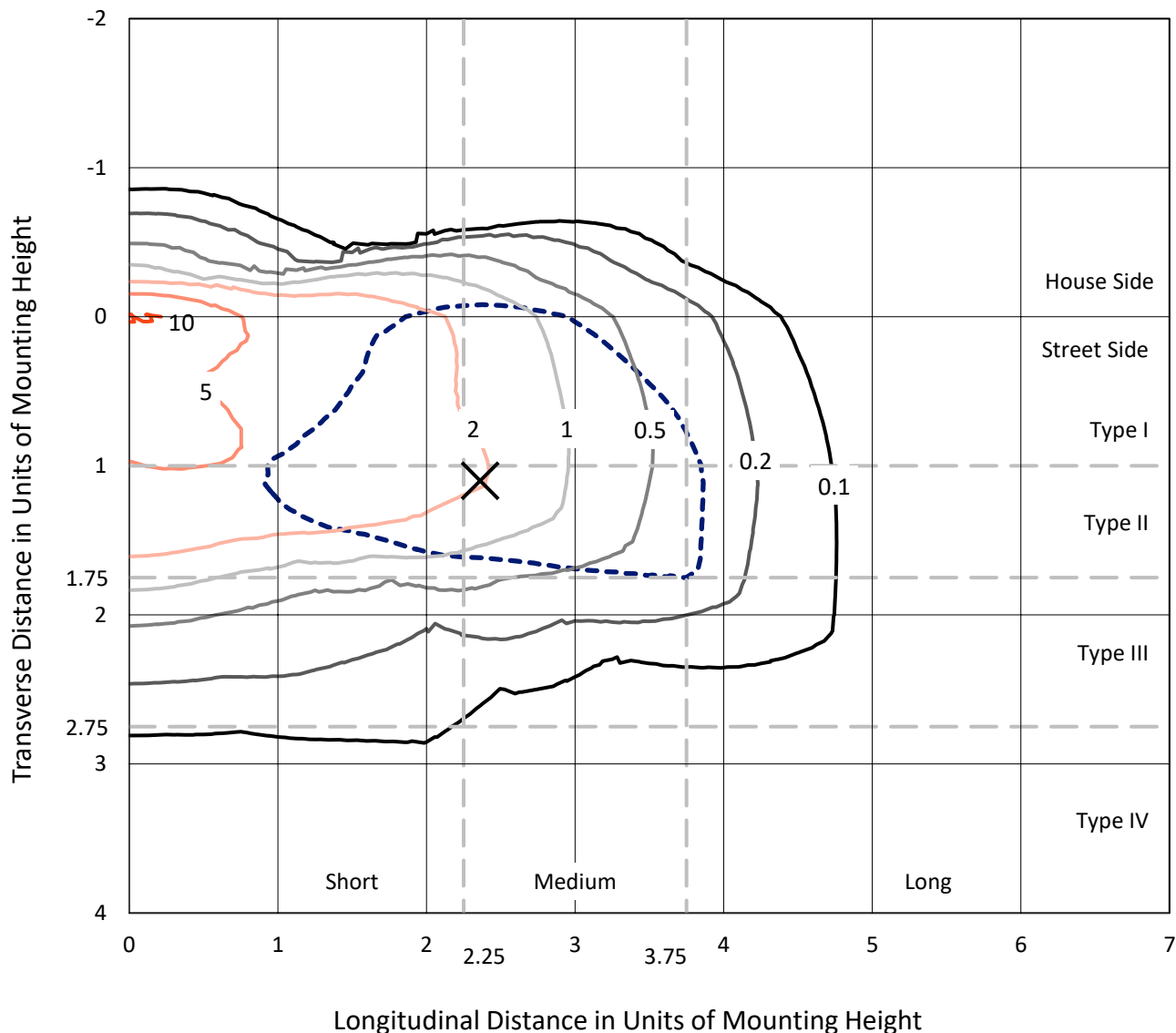
Lumens per Lamp: N/A
Luminaire Lumens: 37631.5 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 368.2
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

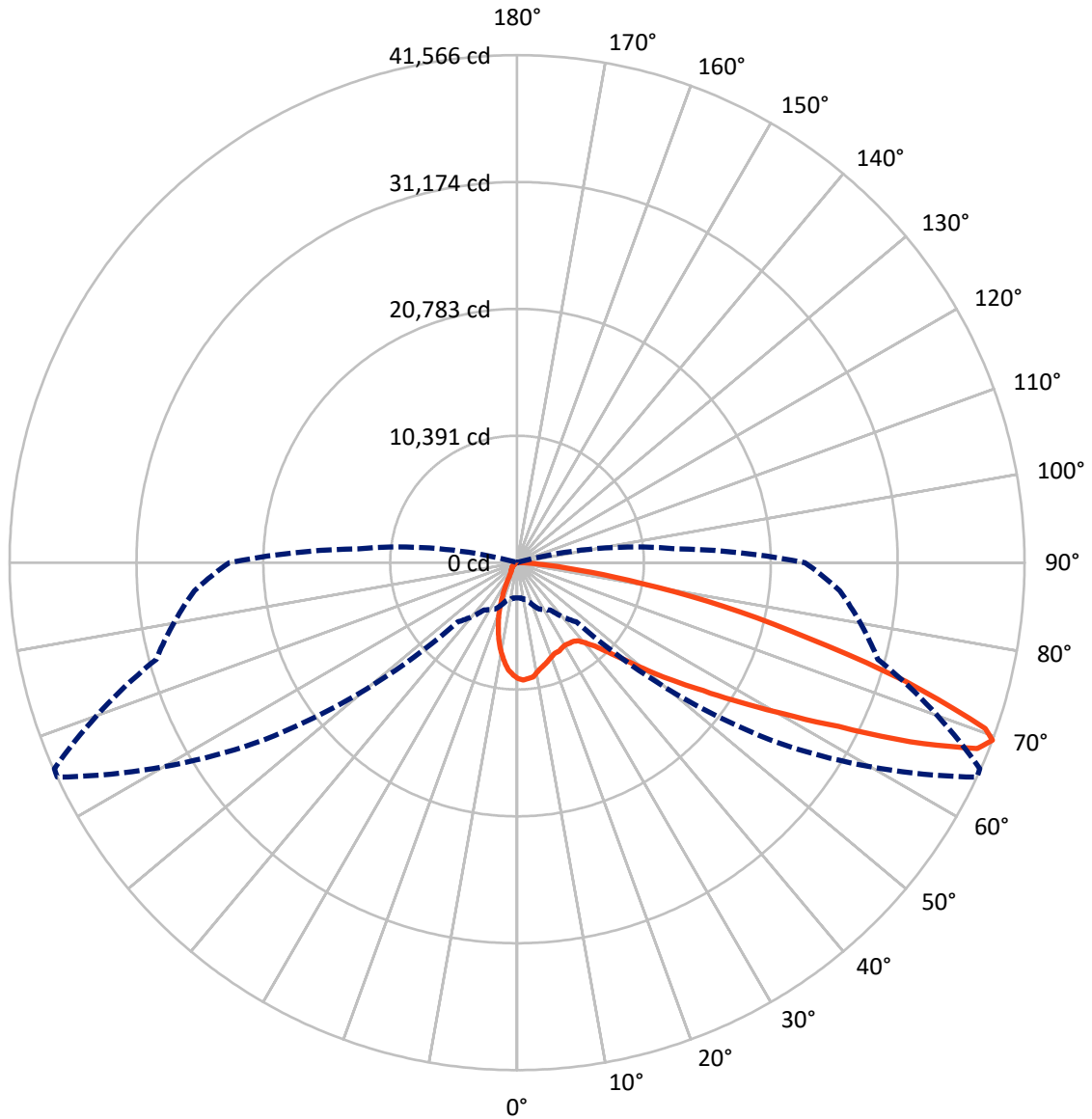
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4564.9	0.0	4564.9
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	33066.5	0.0	33066.5
	% Fixture	87.9	0.0	87.9
Total	Lumens	37631.5	0.0	37631.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	776.4	2.1
10°-20°	1698.8	4.5
20°-30°	2365.1	6.3
30°-40°	3351.5	8.9
40°-50°	5281.9	14.0
50°-60°	8570.7	22.8
60°-70°	9571.7	25.4
70°-80°	5390.0	14.3
80°-90°	625.4	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°	37631.5	100.0
0°-180°	37631.5	100.0



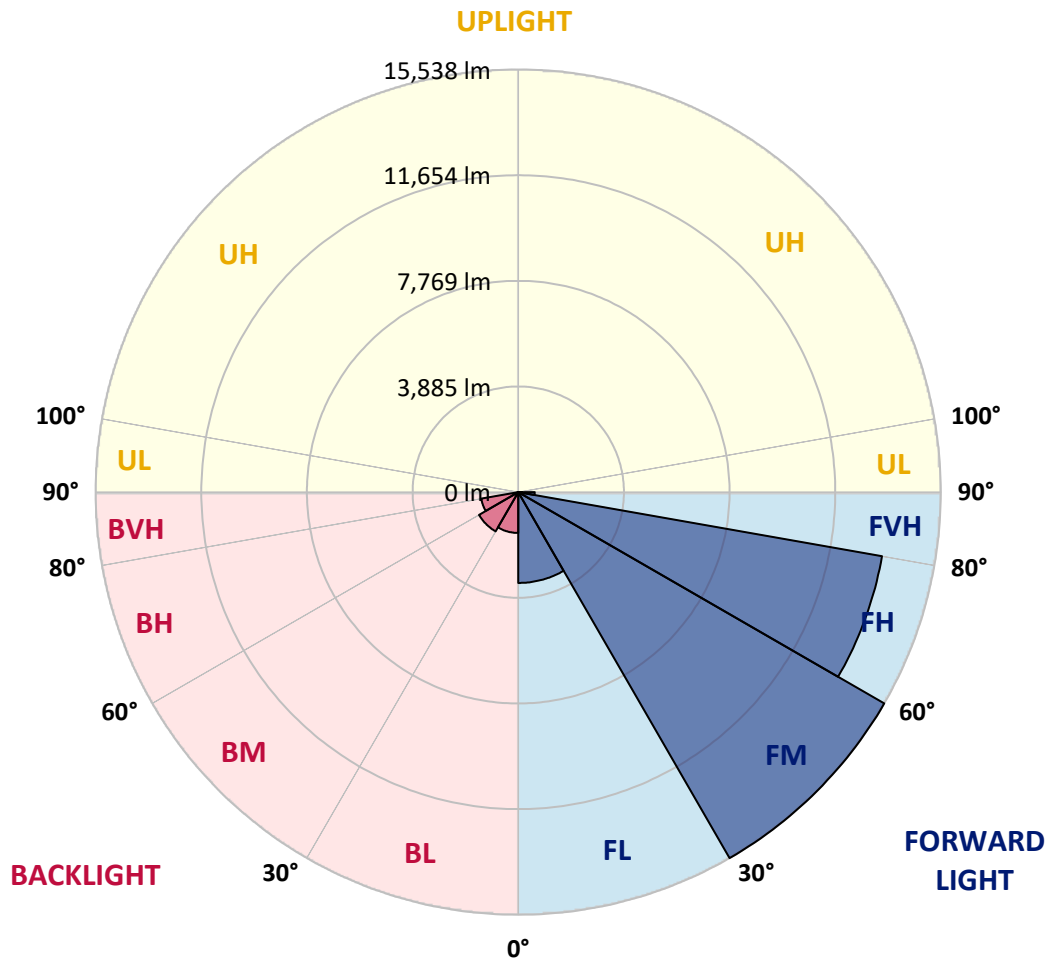
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3339.4	8.9			
FM (30°-60°)	15538.4	41.3			
FH (60°-80°)	13580.5	36.1			G5
FVH (80°-90°)	608.2	1.6			G4/750
BL (0°-30°)	1500.8	4.0	B3/2500		
BM (30°-60°)	1665.7	4.4	B2/2500		
BH (60°-80°)	1381.2	3.7	B3/2500		G3/2500
BVH (80°-90°)	17.3	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-G5

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	9487.8	9487.8	9487.8	9487.8	9487.8	9487.8	9487.8	9487.8	9487.8	9487.8	9487.8
2.5°	9137.5	9208.6	9228.9	9299.9	9335.5	9487.8	9574.1	9624.8	9599.4	9655.3	9660.4
5°	8487.7	8447.1	8553.7	8629.9	8792.3	9056.3	9325.3	9533.5	9629.9	9721.3	9706.1
7.5°	7792.3	7771.9	7878.6	8051.1	8198.4	8518.2	8949.7	9462.4	9442.1	9665.4	9731.4
10°	7315.1	7335.4	7370.9	7543.5	7761.8	8086.7	8624.8	9102.0	9208.6	9680.7	9812.7
12.5°	6878.5	6914.0	6980.0	7157.7	7411.5	7746.6	8269.4	8827.8	8990.3	9594.4	9858.3
15°	6736.4	6655.1	6787.1	6919.1	7183.1	7482.6	7924.2	8619.7	8690.8	9492.8	9934.5
17.5°	6619.6	6568.8	6629.8	6736.4	7015.6	7259.2	7675.5	8396.3	8528.3	9452.2	9924.3
20°	6655.1	6609.5	6634.8	6716.1	6843.0	7071.4	7457.2	8183.1	8325.3	9264.4	9909.1
22.5°	6756.7	6792.2	6746.5	6766.8	6807.4	6924.2	7340.5	8030.8	8152.7	9228.9	9995.4
25°	7213.5	7152.6	7091.7	7066.3	6827.7	6878.5	7304.9	8020.7	8107.0	9102.0	9924.3
27.5°	7690.7	7640.0	7614.6	7467.4	7142.5	6990.2	7310.0	7878.6	7995.3	9051.2	9838.0
30°	8269.4	8335.4	8233.9	8056.2	7604.4	7228.8	7365.8	7807.5	7969.9	8858.3	9782.2
32.5°	8878.6	8914.1	8964.9	8832.9	8249.1	7589.2	7533.4	7873.5	7883.6	8858.3	9655.3
35°	9569.0	9518.2	9650.2	9660.4	9147.6	8228.8	7853.2	7919.2	8025.8	8817.7	9609.6
37.5°	10162.9	10249.2	10401.5	10645.2	10117.2	9132.4	8350.7	8132.4	8178.1	9005.5	9645.1
40°	10812.7	10899.0	11244.2	11487.9	11188.4	10147.7	9107.0	8629.9	8665.4	9284.7	9827.9
42.5°	11528.5	11696.0	12107.2	12533.6	12452.4	11437.1	10081.7	9360.9	9345.6	9980.2	10203.5
45°	12498.1	12721.4	13168.1	13660.6	13731.6	12914.3	11381.3	10452.3	10503.0	10888.8	10980.2
47.5°	13848.4	13838.2	14274.8	14823.0	15234.2	14447.4	12934.6	11919.4	11914.3	12325.5	12132.6
50°	15153.0	15158.1	15274.8	15909.4	16975.4	16574.4	14858.6	13868.7	13812.8	14015.9	13706.2
52.5°	15757.1	15686.0	15599.7	16366.3	18315.6	19254.7	17295.3	16076.9	16031.2	15909.4	15828.2
55°	15122.6	15147.9	15142.9	15939.9	19021.2	22082.3	20422.3	18508.5	18432.4	18051.6	18163.3
57.5°	13086.9	13005.7	13183.4	14427.1	18214.1	24011.3	24894.6	21574.6	21376.7	20112.6	19858.8
60°	9741.6	9767.0	9914.2	11381.3	16208.9	24417.4	29174.0	25173.8	24321.0	21564.5	21214.2
62.5°	6802.4	6751.6	6807.4	7629.8	11589.4	22793.0	32067.5	29549.6	28727.3	23214.3	23011.3
65°	4868.3	4802.3	5025.6	5528.2	6959.7	17427.2	32478.7	35377.3	34641.3	25849.0	25361.6
67.5°	3502.7	3492.6	3751.4	4665.2	4944.4	10036.0	29432.9	40656.8	40210.1	28976.0	26793.2
69°	2898.6	2903.7	3152.4	4177.9	4721.0	6853.1	25326.1	41565.5	41484.2	30590.3	26524.1
70°	2528.0	2548.3	2837.7	3888.5	4629.7	5634.8	21833.5	40672.0	40590.8	30905.0	25635.8
72.5°	1558.5	1573.7	1954.4	3116.9	4401.2	4599.2	13056.5	33275.7	33554.9	29463.3	22087.4
75°	746.2	751.3	1025.4	2253.9	4243.9	4360.6	6995.3	24554.5	25143.3	23787.9	17259.7
77.5°	396.0	396.0	492.4	1198.0	3436.7	4101.7	4152.5	17320.6	17808.0	15041.3	9812.7
80°	198.0	203.1	299.5	624.4	2132.1	4020.5	3243.8	10330.4	10594.4	6137.4	3056.0
82.5°	76.1	81.2	142.1	375.7	1106.7	3396.1	2847.9	5081.5	5015.5	1436.6	746.2
85°	10.2	10.2	50.8	223.4	472.1	1497.5	2350.4	2121.9	2050.9	314.7	360.4
87.5°	0.0	0.0	10.2	66.0	142.1	436.6	908.7	583.8	649.8	86.3	177.7
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°	9487.8	9487.8	9487.8	9487.8	9487.8	9487.8	9487.8	9487.8	9487.8	9487.8	9487.8
2.5°	9635.0	9528.4	9365.9	9208.6	9041.0	8838.0	8614.6	8533.4	8391.3	8381.1	8462.3
5°	9624.8	9452.2	9168.0	8832.9	8355.7	7995.3	7604.4	7320.1	7101.9	6959.7	6995.3
7.5°	9675.6	9467.5	8975.1	8254.2	7640.0	6924.2	6320.1	5903.8	5523.1	5335.3	5315.0
10°	9594.4	9315.2	8594.3	7584.1	6680.5	5680.5	4797.2	4238.8	3670.2	3462.1	3472.2
12.5°	9640.1	9249.2	8183.1	6893.7	5650.0	4350.5	3294.6	2533.1	2000.1	1827.5	1807.2
15°	9670.5	9107.0	7787.2	6066.3	4507.8	2964.6	1908.7	1436.6	1269.1	1238.6	1233.6
17.5°	9553.8	8934.4	7228.8	5249.0	3340.3	1802.1	1269.1	1172.6	1142.2	1121.9	1111.7
20°	9548.7	8832.9	6746.5	4411.4	2228.5	1228.5	1096.5	1061.0	1015.3	1000.0	1000.0
22.5°	9462.4	8619.7	6167.8	3492.6	1421.4	1055.9	984.8	929.0	878.2	857.9	852.8
25°	9437.0	8371.0	5624.6	2624.5	1081.3	944.2	873.1	791.9	731.0	700.5	685.3
27.5°	9365.9	8157.8	5076.4	1847.8	944.2	842.7	751.3	665.0	593.9	548.2	543.2
30°	9112.1	7934.4	4467.2	1279.2	857.9	746.2	644.7	543.2	472.1	441.6	431.5
32.5°	9005.5	7726.3	3802.2	984.8	781.8	659.9	543.2	451.8	396.0	365.5	360.4
35°	8878.6	7421.7	3157.5	857.9	710.7	573.6	456.9	380.7	335.0	309.7	309.7
37.5°	8893.8	7178.0	2553.4	776.7	634.5	492.4	390.9	324.9	284.3	258.9	258.9
40°	8848.1	6985.1	1984.9	705.6	563.5	421.3	330.0	274.1	238.6	213.2	208.1
42.5°	9056.3	6934.3	1497.5	644.7	492.4	360.4	284.3	233.5	198.0	167.5	167.5
45°	9406.5	7015.6	1167.6	588.9	421.3	309.7	243.7	192.9	157.4	137.1	132.0
47.5°	10340.6	7335.4	913.7	543.2	360.4	269.0	203.1	157.4	126.9	106.6	101.5
50°	11696.0	8051.1	776.7	477.2	304.6	228.4	167.5	121.8	101.5	81.2	76.1
52.5°	13625.0	9254.3	705.6	421.3	253.8	187.8	132.0	96.5	76.1	60.9	55.8
55°	15726.6	10756.9	639.6	355.3	213.2	152.3	106.6	76.1	55.8	40.6	35.5
57.5°	17366.3	12056.4	583.8	294.4	172.6	121.8	81.2	55.8	40.6	25.4	20.3
60°	19158.3	12970.2	512.7	233.5	142.1	91.4	60.9	40.6	30.5	15.2	15.2
62.5°	21006.1	14041.3	421.3	182.7	111.7	71.1	45.7	30.5	20.3	5.1	5.1
65°	23574.7	14878.9	324.9	142.1	86.3	50.8	35.5	25.4	10.2	0.0	0.0
67.5°	24300.7	14467.7	238.6	111.7	60.9	35.5	25.4	15.2	5.1	0.0	0.0
69°	23574.7	13031.1	208.1	96.5	50.8	30.5	20.3	10.2	5.1	0.0	0.0
70°	22249.8	11914.3	182.7	81.2	45.7	30.5	15.2	10.2	5.1	0.0	0.0
72.5°	18610.0	9137.5	142.1	60.9	35.5	25.4	15.2	10.2	0.0	0.0	0.0
75°	13650.4	5644.9	106.6	45.7	30.5	20.3	15.2	10.2	0.0	0.0	0.0
77.5°	7315.1	2061.0	76.1	30.5	20.3	15.2	15.2	10.2	0.0	0.0	0.0
80°	2005.2	609.2	55.8	20.3	15.2	10.2	10.2	5.1	0.0	0.0	0.0
82.5°	548.2	157.4	35.5	20.3	15.2	10.2	5.1	0.0	0.0	0.0	0.0
85°	294.4	60.9	20.3	15.2	10.2	5.1	0.0	0.0	0.0	0.0	0.0
87.5°	152.3	20.3	15.2	10.2	10.2	5.1	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)