

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: P483956

Luminaire Tested: **IFLD-L-SA7D-730-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483956
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-730-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

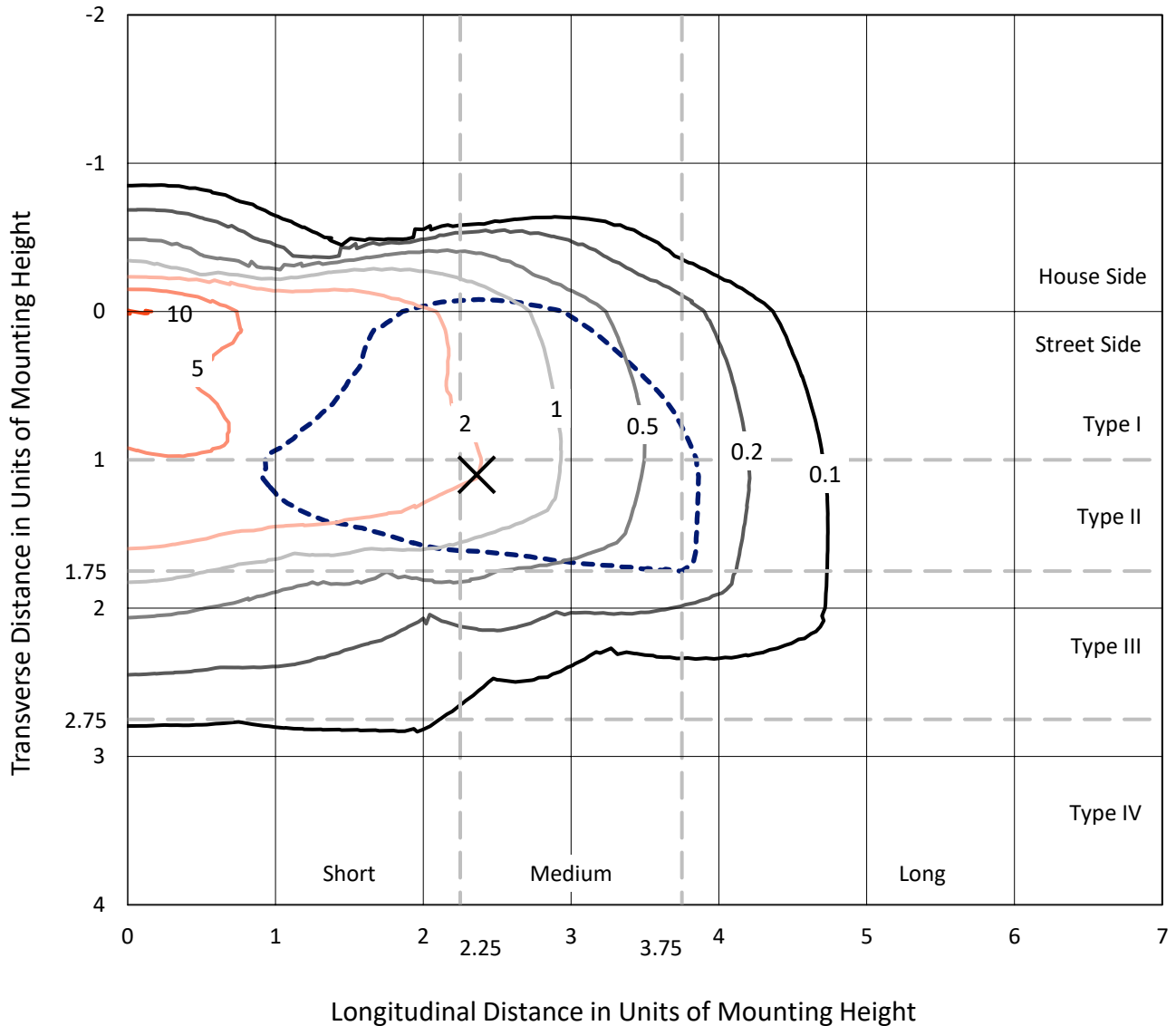
Lumens per Lamp: N/A
Luminaire Lumens: 36558.5 lumens
Efficiency: N/A
Efficacy: 86.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 422.6
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

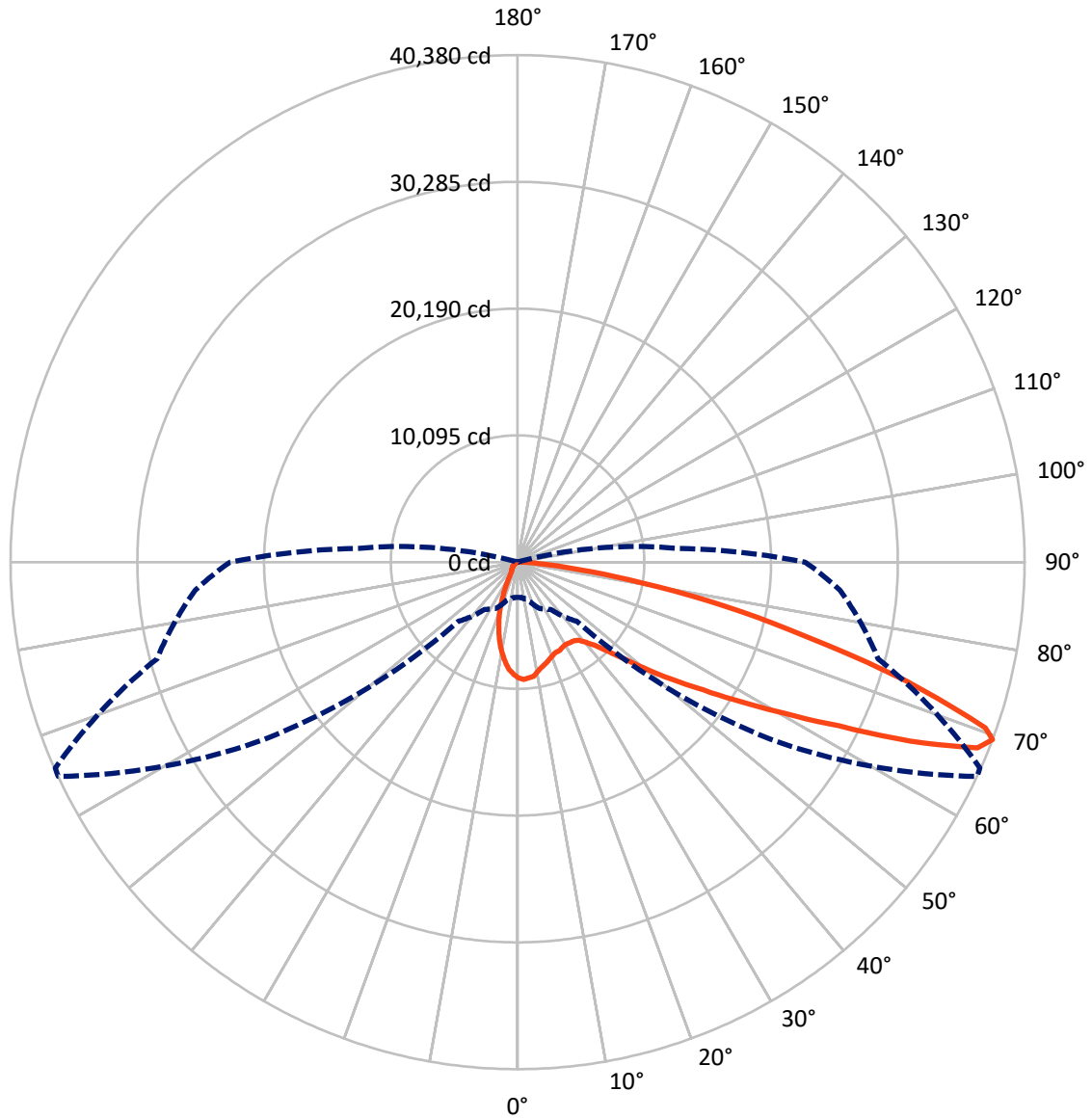
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.2 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	4434.8	0.0	4434.8
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	32123.8	0.0	32123.8
	% Fixture	87.9	0.0	87.9
Total	Lumens	36558.5	0.0	36558.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	754.3	2.1
10°-20°	1650.3	4.5
20°-30°	2297.6	6.3
30°-40°	3256.0	8.9
40°-50°	5131.3	14.0
50°-60°	8326.3	22.8
60°-70°	9298.8	25.4
70°-80°	5236.3	14.3
80°-90°	607.6	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°	36558.5	100.0
0°-180°	36558.5	100.0

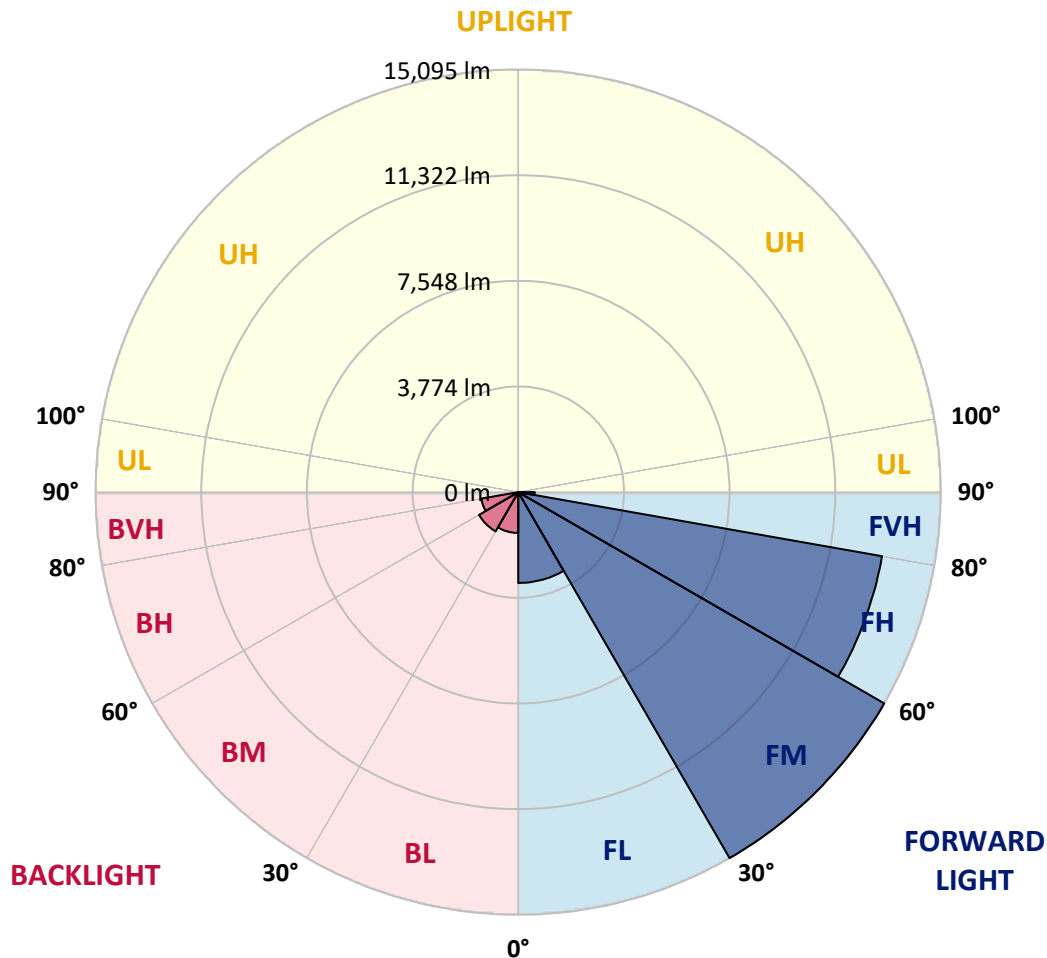


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3244.2	8.9			
FM (30°-60°)	15095.4	41.3			
FH (60°-80°)	13193.3	36.1			G5
FVH (80°-90°)	590.8	1.6			G4/750
BL (0°-30°)	1458.0	4.0	B3/2500		
BM (30°-60°)	1618.2	4.4	B2/2500		
BH (60°-80°)	1341.8	3.7	B3/2500		G3/2500
BVH (80°-90°)	16.8	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°	9217.3	9217.3	9217.3	9217.3	9217.3	9217.3	9217.3	9217.3	9217.3	9217.3	9217.3
2.5°	8877.0	8946.0	8965.7	9034.8	9069.3	9217.3	9301.1	9350.4	9325.7	9380.0	9384.9
5°	8245.7	8206.3	8309.8	8383.8	8541.6	8798.1	9059.4	9261.6	9355.3	9444.1	9429.3
7.5°	7570.1	7550.4	7653.9	7821.6	7964.6	8275.3	8694.5	9192.6	9172.9	9389.9	9454.0
10°	7106.5	7126.2	7160.8	7328.4	7540.5	7856.1	8378.9	8842.4	8946.0	9404.7	9532.9
12.5°	6682.4	6716.9	6781.0	6953.6	7200.2	7525.7	8033.7	8576.1	8734.0	9320.8	9577.3
15°	6544.3	6465.4	6593.6	6721.8	6978.3	7269.3	7698.3	8373.9	8443.0	9222.2	9651.2
17.5°	6430.9	6381.6	6440.7	6544.3	6815.5	7052.3	7456.7	8156.9	8285.2	9182.7	9641.4
20°	6465.4	6421.0	6445.7	6524.6	6647.9	6869.8	7244.6	7949.8	8087.9	9000.3	9626.6
22.5°	6564.0	6598.5	6554.2	6573.9	6613.3	6726.8	7131.2	7801.9	7920.2	8965.7	9710.4
25°	7007.9	6948.7	6889.5	6864.9	6633.1	6682.4	7096.6	7792.0	7875.8	8842.4	9641.4
27.5°	7471.4	7422.1	7397.5	7254.5	6938.8	6790.9	7101.6	7653.9	7767.3	8793.1	9557.5
30°	8033.7	8097.8	7999.1	7826.5	7387.6	7022.7	7155.8	7584.9	7742.7	8605.7	9503.3
32.5°	8625.5	8660.0	8709.3	8581.1	8013.9	7372.8	7318.6	7649.0	7658.9	8605.7	9380.0
35°	9296.2	9246.8	9375.1	9384.9	8886.8	7994.2	7629.3	7693.4	7796.9	8566.3	9335.6
37.5°	9873.2	9957.0	10104.9	10341.7	9828.8	8872.0	8112.6	7900.5	7944.9	8748.7	9370.1
40°	10504.4	10588.3	10923.6	11160.3	10869.4	9858.4	8847.4	8383.8	8418.3	9020.0	9547.7
42.5°	11199.8	11362.5	11762.0	12176.2	12097.3	11111.0	9794.3	9094.0	9079.2	9695.6	9912.6
45°	12141.7	12358.7	12792.7	13271.1	13340.1	12546.1	11056.8	10154.3	10203.6	10578.4	10667.2
47.5°	13453.5	13443.7	13867.8	14400.4	14799.9	14035.5	12565.8	11579.5	11574.6	11974.0	11786.6
50°	14721.0	14725.9	14839.3	15455.8	16491.4	16101.8	14434.9	13473.3	13419.0	13616.3	13315.5
52.5°	15307.8	15238.8	15155.0	15899.6	17793.4	18705.7	16802.1	15618.5	15574.1	15455.8	15376.9
55°	14691.4	14716.0	14711.1	15485.4	18478.9	21452.7	19840.0	17980.8	17906.8	17536.9	17645.4
57.5°	12713.8	12634.9	12807.5	14015.7	17694.8	23326.7	24184.8	20959.5	20767.2	19539.2	19292.6
60°	9463.8	9488.5	9631.5	11056.8	15746.8	23721.2	28342.2	24456.0	23627.5	20949.6	20609.4
62.5°	6608.4	6559.1	6613.3	7412.3	11259.0	22143.1	31153.2	28707.1	27908.2	22552.4	22355.2
65°	4729.5	4665.3	4882.3	5370.6	6761.3	16930.4	31552.7	34368.7	33653.6	25112.0	24638.5
67.5°	3402.8	3393.0	3644.5	4532.2	4803.4	9749.9	28593.7	39497.6	39063.6	28149.9	26029.2
69°	2816.0	2820.9	3062.6	4058.7	4586.4	6657.7	24604.0	40380.3	40301.4	29718.1	25767.9
70°	2456.0	2475.7	2756.8	3777.6	4497.7	5474.1	21211.0	39512.4	39433.5	30023.9	24904.8
72.5°	1514.0	1528.8	1898.7	3028.0	4275.7	4468.1	12684.2	32327.0	32598.2	28623.3	21457.6
75°	725.0	729.9	996.2	2189.7	4122.9	4236.3	6795.8	23854.4	24426.5	23109.7	16767.6
77.5°	384.7	384.7	478.4	1163.9	3338.7	3984.8	4034.1	16826.8	17300.2	14612.5	9532.9
80°	192.3	197.3	291.0	606.6	2071.3	3905.9	3151.3	10035.9	10292.4	5962.4	2968.9
82.5°	74.0	78.9	138.1	364.9	1075.1	3299.3	2766.7	4936.6	4872.5	1395.7	725.0
85°	9.9	9.9	49.3	217.0	458.6	1454.8	2283.4	2061.4	1992.4	305.8	350.1
87.5°	0.0	0.0	9.9	64.1	138.1	424.1	882.8	567.1	631.3	83.8	172.6
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°	9217.3	9217.3	9217.3	9217.3	9217.3	9217.3	9217.3	9217.3	9217.3	9217.3	9217.3
2.5°	9360.3	9256.7	9098.9	8946.0	8783.3	8586.0	8369.0	8290.1	8152.0	8142.2	8221.1
5°	9350.4	9182.7	8906.6	8581.1	8117.5	7767.3	7387.6	7111.4	6899.4	6761.3	6795.8
7.5°	9399.7	9197.5	8719.2	8018.9	7422.1	6726.8	6139.9	5735.5	5365.6	5183.2	5163.4
10°	9320.8	9049.6	8349.3	7367.9	6490.1	5518.5	4660.4	4117.9	3565.6	3363.4	3373.2
12.5°	9365.2	8985.5	7949.8	6697.2	5488.9	4226.4	3200.6	2460.9	1943.1	1775.4	1755.7
15°	9394.8	8847.4	7565.2	5893.3	4379.3	2880.1	1854.3	1395.7	1232.9	1203.3	1198.4
17.5°	9281.4	8679.7	7022.7	5099.3	3245.0	1750.7	1232.9	1139.2	1109.6	1089.9	1080.0
20°	9276.4	8581.1	6554.2	4285.6	2165.0	1193.5	1065.2	1030.7	986.3	971.5	971.5
22.5°	9192.6	8373.9	5992.0	3393.0	1380.9	1025.8	956.7	902.5	853.2	833.4	828.5
25°	9167.9	8132.3	5464.3	2549.7	1050.4	917.3	848.2	769.3	710.2	680.6	665.8
27.5°	9098.9	7925.2	4931.6	1795.1	917.3	818.7	729.9	646.0	577.0	532.6	527.7
30°	8852.3	7708.2	4339.9	1242.8	833.4	725.0	626.3	527.7	458.6	429.1	419.2
32.5°	8748.7	7506.0	3693.8	956.7	759.5	641.1	527.7	438.9	384.7	355.1	350.1
35°	8625.5	7210.1	3067.5	833.4	690.4	557.3	443.8	369.9	325.5	300.8	300.8
37.5°	8640.2	6973.4	2480.6	754.5	616.5	478.4	379.7	315.6	276.2	251.5	251.5
40°	8595.9	6785.9	1928.3	685.5	547.4	409.3	320.6	266.3	231.8	207.1	202.2
42.5°	8798.1	6736.6	1454.8	626.3	478.4	350.1	276.2	226.9	192.3	162.7	162.7
45°	9138.3	6815.5	1134.3	572.1	409.3	300.8	236.7	187.4	152.9	133.2	128.2
47.5°	10045.8	7126.2	887.7	527.7	350.1	261.4	197.3	152.9	123.3	103.6	98.6
50°	11362.5	7821.6	754.5	463.6	295.9	221.9	162.7	118.4	98.6	78.9	74.0
52.5°	13236.5	8990.4	685.5	409.3	246.6	182.5	128.2	93.7	74.0	59.2	54.2
55°	15278.3	10450.2	621.4	345.2	207.1	147.9	103.6	74.0	54.2	39.5	34.5
57.5°	16871.2	11712.7	567.1	286.0	167.7	118.4	78.9	54.2	39.5	24.7	19.7
60°	18612.0	12600.4	498.1	226.9	138.1	88.8	59.2	39.5	29.6	14.8	14.8
62.5°	20407.2	13640.9	409.3	177.5	108.5	69.0	44.4	29.6	19.7	4.9	4.9
65°	22902.6	14454.7	315.6	138.1	83.8	49.3	34.5	24.7	9.9	0.0	0.0
67.5°	23607.8	14055.2	231.8	108.5	59.2	34.5	24.7	14.8	4.9	0.0	0.0
69°	22902.6	12659.5	202.2	93.7	49.3	29.6	19.7	9.9	4.9	0.0	0.0
70°	21615.4	11574.6	177.5	78.9	44.4	29.6	14.8	9.9	4.9	0.0	0.0
72.5°	18079.4	8877.0	138.1	59.2	34.5	24.7	14.8	9.9	0.0	0.0	0.0
75°	13261.2	5484.0	103.6	44.4	29.6	19.7	14.8	9.9	0.0	0.0	0.0
77.5°	7106.5	2002.2	74.0	29.6	19.7	14.8	14.8	9.9	0.0	0.0	0.0
80°	1948.0	591.8	54.2	19.7	14.8	9.9	9.9	4.9	0.0	0.0	0.0
82.5°	532.6	152.9	34.5	19.7	14.8	9.9	4.9	0.0	0.0	0.0	0.0
85°	286.0	59.2	19.7	14.8	9.9	4.9	0.0	0.0	0.0	0.0	0.0
87.5°	147.9	19.7	14.8	9.9	9.9	4.9	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)