

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: P484190

Luminaire Tested: **IFLD-L-SA7D-830-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484190
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-830-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

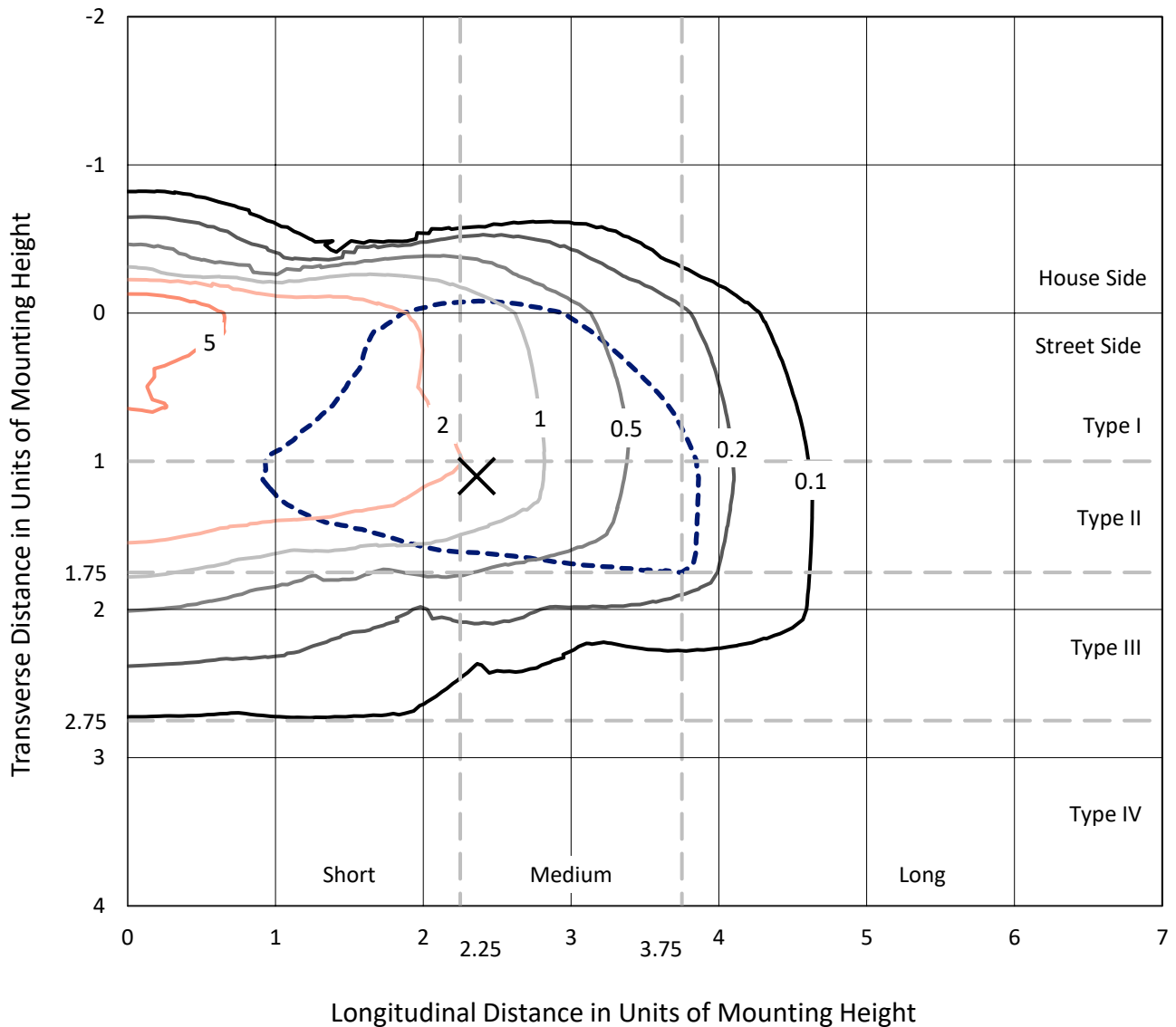
Lumens per Lamp: N/A
Luminaire Lumens: 31901.4 lumens
Efficiency: N/A
Efficacy: 75.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 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

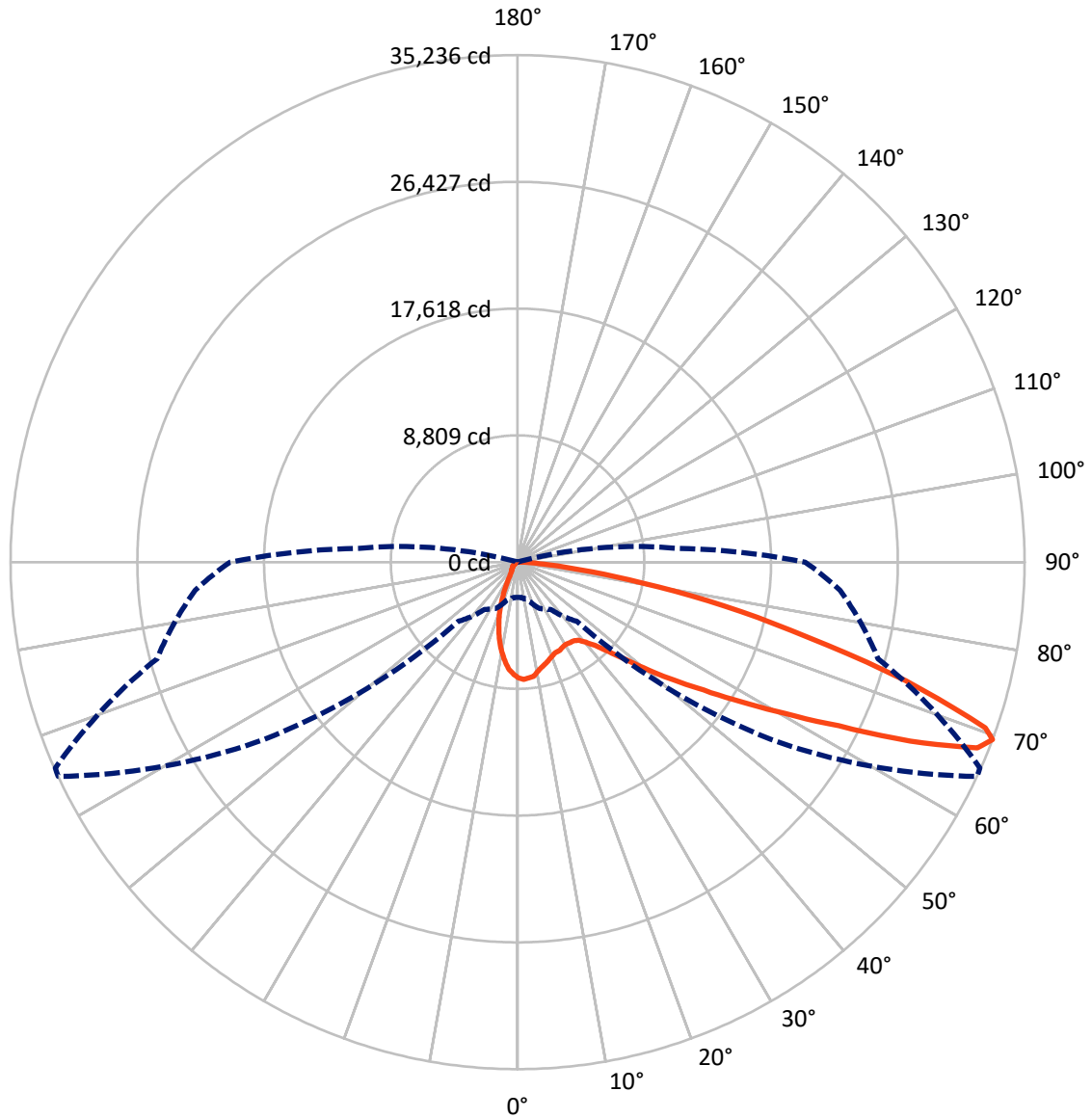
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.9 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	3869.8	0.0	3869.8
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	28031.5	0.0	28031.5
	% Fixture	87.9	0.0	87.9
Total	Lumens	31901.4	0.0	31901.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	658.2	2.1
10°-20°	1440.1	4.5
20°-30°	2004.9	6.3
30°-40°	2841.2	8.9
40°-50°	4477.6	14.0
50°-60°	7265.6	22.8
60°-70°	8114.2	25.4
70°-80°	4569.2	14.3
80°-90°	530.2	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°	31901.4	100.0
0°-180°	31901.4	100.0

Coefficient of Utilization



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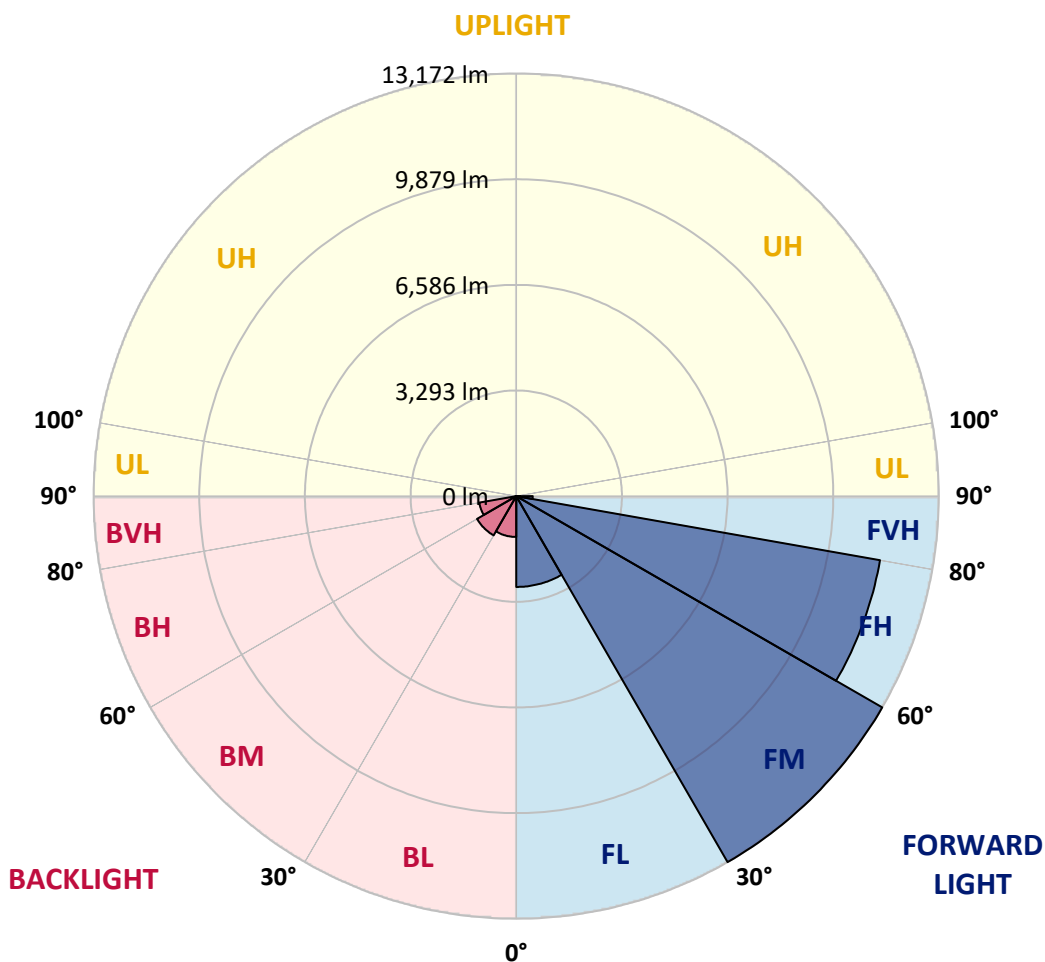
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2830.9	8.9			
FM	(30°-60°)	13172.4	41.3			
FH	(60°-80°)	11512.7	36.1			G4/12000
FVH	(80°-90°)	515.6	1.6			G4/750
BL	(0°-30°)	1272.3	4.0	B3/2500		
BM	(30°-60°)	1412.1	4.4	B2/2500		
BH	(60°-80°)	1170.8	3.7	B3/2500		G3/2500
BVH	(80°-90°)	14.6	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	8043.1	8043.1	8043.1	8043.1	8043.1	8043.1	8043.1	8043.1	8043.1	8043.1	8043.1
2.5°	7746.1	7806.4	7823.6	7883.9	7914.0	8043.1	8116.2	8159.3	8137.8	8185.1	8189.4
5°	7195.3	7160.9	7251.3	7315.8	7453.5	7677.3	7905.4	8081.8	8163.6	8241.0	8228.1
7.5°	6605.7	6588.5	6678.9	6825.2	6950.0	7221.1	7586.9	8021.6	8004.3	8193.7	8249.6
10°	6201.2	6218.4	6248.6	6394.9	6579.9	6855.3	7311.5	7716.0	7806.4	8206.6	8318.5
12.5°	5831.1	5861.2	5917.2	6067.8	6283.0	6567.0	7010.3	7483.6	7621.3	8133.5	8357.2
15°	5710.6	5641.8	5753.7	5865.6	6089.3	6343.2	6717.6	7307.2	7367.4	8047.4	8421.8
17.5°	5611.7	5568.6	5620.3	5710.6	5947.3	6153.9	6506.8	7117.8	7229.7	8013.0	8413.2
20°	5641.8	5603.0	5624.6	5693.4	5801.0	5994.7	6321.7	6937.1	7057.6	7853.7	8400.3
22.5°	5727.8	5758.0	5719.2	5736.5	5770.9	5869.9	6222.7	6808.0	6911.3	7823.6	8473.4
25°	6115.2	6063.5	6011.9	5990.4	5788.1	5831.1	6192.6	6799.4	6872.6	7716.0	8413.2
27.5°	6519.7	6476.6	6455.1	6330.3	6054.9	5925.8	6196.9	6678.9	6777.9	7673.0	8340.0
30°	7010.3	7066.2	6980.1	6829.5	6446.5	6128.1	6244.3	6618.7	6756.4	7509.5	8292.7
32.5°	7526.7	7556.8	7599.8	7487.9	6993.0	6433.6	6386.3	6674.6	6683.2	7509.5	8185.1
35°	8111.9	8068.9	8180.8	8189.4	7754.8	6975.8	6657.4	6713.3	6803.7	7475.0	8146.4
37.5°	8615.4	8688.6	8817.7	9024.3	8576.7	7741.8	7079.1	6894.1	6932.8	7634.3	8176.5
40°	9166.3	9239.4	9532.1	9738.6	9484.7	8602.5	7720.3	7315.8	7345.9	7870.9	8331.4
42.5°	9773.1	9915.1	10263.6	10625.1	10556.3	9695.6	8546.6	7935.5	7922.6	8460.5	8649.9
45°	10595.0	10784.4	11163.1	11580.5	11640.7	10947.9	9648.3	8860.7	8903.8	9230.8	9308.3
47.5°	11739.7	11731.1	12101.2	12566.0	12914.5	12247.5	10965.1	10104.4	10100.1	10448.7	10285.2
50°	12845.7	12850.0	12949.0	13486.9	14390.6	14050.6	12596.1	11756.9	11709.6	11881.7	11619.2
52.5°	13357.8	13297.5	13224.4	13874.2	15526.7	16322.8	14661.7	13628.9	13590.2	13486.9	13418.0
55°	12819.9	12841.4	12837.1	13512.7	16124.9	18719.9	17312.6	15690.2	15625.7	15302.9	15397.6
57.5°	11094.2	11025.3	11176.0	12230.3	15440.6	20355.1	21103.9	18289.5	18121.7	17050.1	16835.0
60°	8258.3	8279.8	8404.6	9648.3	13740.8	20699.4	24731.7	21340.6	20617.7	18280.9	17984.0
62.5°	5766.6	5723.5	5770.9	6468.0	9824.7	19322.3	27184.7	25050.2	24353.0	19679.5	19507.4
65°	4127.0	4071.0	4260.4	4686.4	5900.0	14773.6	27533.2	29990.5	29366.5	21913.0	21499.9
67.5°	2969.4	2960.7	3180.2	3954.8	4191.5	8507.8	24951.2	34466.0	34087.3	24563.9	22713.4
69°	2457.2	2461.6	2672.4	3541.7	4002.2	5809.6	21469.7	35236.4	35167.5	25932.4	22485.3
70°	2143.1	2160.3	2405.6	3296.4	3924.7	4776.8	18509.0	34479.0	34410.1	26199.2	21732.2
72.5°	1321.1	1334.1	1656.8	2642.3	3731.1	3898.9	11068.4	28208.9	28445.6	24977.0	18724.2
75°	632.6	636.9	869.3	1910.7	3597.7	3696.6	5930.1	20815.6	21314.8	20165.8	14631.6
77.5°	335.7	335.7	417.4	1015.6	2913.4	3477.2	3520.2	14683.2	15096.4	12751.0	8318.5
80°	167.8	172.1	253.9	529.3	1807.4	3408.3	2749.9	8757.4	8981.2	5202.8	2590.7
82.5°	64.6	68.9	120.5	318.5	938.1	2879.0	2414.2	4307.7	4251.8	1217.9	632.6
85°	8.6	8.6	43.0	189.4	400.2	1269.5	1992.5	1798.8	1738.6	266.8	305.5
87.5°	0.0	0.0	8.6	55.9	120.5	370.1	770.3	494.9	550.8	73.2	150.6
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°	8043.1	8043.1	8043.1	8043.1	8043.1	8043.1	8043.1	8043.1	8043.1	8043.1	8043.1
2.5°	8167.9	8077.5	7939.8	7806.4	7664.4	7492.2	7302.9	7234.0	7113.5	7104.9	7173.8
5°	8159.3	8013.0	7772.0	7487.9	7083.4	6777.9	6446.5	6205.5	6020.5	5900.0	5930.1
7.5°	8202.3	8025.9	7608.4	6997.4	6476.6	5869.9	5357.8	5004.9	4682.1	4522.9	4505.7
10°	8133.5	7896.8	7285.7	6429.3	5663.3	4815.5	4066.7	3593.4	3111.4	2934.9	2943.5
12.5°	8172.2	7840.8	6937.1	5844.0	4789.7	3688.0	2792.9	2147.4	1695.5	1549.2	1532.0
15°	8198.0	7720.3	6601.4	5142.6	3821.4	2513.2	1618.1	1217.9	1075.9	1050.0	1045.7
17.5°	8099.0	7574.0	6128.1	4449.7	2831.6	1527.7	1075.9	994.1	968.3	951.1	942.4
20°	8094.7	7487.9	5719.2	3739.7	1889.2	1041.4	929.5	899.4	860.7	847.8	847.8
22.5°	8021.6	7307.2	5228.6	2960.7	1205.0	895.1	834.9	787.5	744.5	727.3	723.0
25°	8000.0	7096.3	4768.2	2224.9	916.6	800.4	740.2	671.3	619.7	593.9	581.0
27.5°	7939.8	6915.6	4303.4	1566.4	800.4	714.4	636.9	563.7	503.5	464.8	460.5
30°	7724.6	6726.2	3787.0	1084.5	727.3	632.6	546.5	460.5	400.2	374.4	365.8
32.5°	7634.3	6549.8	3223.3	834.9	662.7	559.4	460.5	383.0	335.7	309.8	305.5
35°	7526.7	6291.6	2676.7	727.3	602.5	486.3	387.3	322.8	284.0	262.5	262.5
37.5°	7539.6	6085.0	2164.6	658.4	537.9	417.4	331.4	275.4	241.0	219.5	219.5
40°	7500.9	5921.5	1682.6	598.2	477.7	357.2	279.7	232.4	202.3	180.7	176.4
42.5°	7677.3	5878.5	1269.5	546.5	417.4	305.5	241.0	198.0	167.8	142.0	142.0
45°	7974.2	5947.3	989.8	499.2	357.2	262.5	206.6	163.5	133.4	116.2	111.9
47.5°	8766.1	6218.4	774.6	460.5	305.5	228.1	172.1	133.4	107.6	90.4	86.1
50°	9915.1	6825.2	658.4	404.5	258.2	193.7	142.0	103.3	86.1	68.9	64.6
52.5°	11550.4	7845.1	598.2	357.2	215.2	159.2	111.9	81.8	64.6	51.6	47.3
55°	13332.0	9118.9	542.2	301.2	180.7	129.1	90.4	64.6	47.3	34.4	30.1
57.5°	14722.0	10220.6	494.9	249.6	146.3	103.3	68.9	47.3	34.4	21.5	17.2
60°	16241.1	10995.2	434.6	198.0	120.5	77.5	51.6	34.4	25.8	12.9	12.9
62.5°	17807.5	11903.2	357.2	154.9	94.7	60.2	38.7	25.8	17.2	4.3	4.3
65°	19985.1	12613.3	275.4	120.5	73.2	43.0	30.1	21.5	8.6	0.0	0.0
67.5°	20600.4	12264.7	202.3	94.7	51.6	30.1	21.5	12.9	4.3	0.0	0.0
69°	19985.1	11046.9	176.4	81.8	43.0	25.8	17.2	8.6	4.3	0.0	0.0
70°	18861.9	10100.1	154.9	68.9	38.7	25.8	12.9	8.6	4.3	0.0	0.0
72.5°	15776.3	7746.1	120.5	51.6	30.1	21.5	12.9	8.6	0.0	0.0	0.0
75°	11571.9	4785.4	90.4	38.7	25.8	17.2	12.9	8.6	0.0	0.0	0.0
77.5°	6201.2	1747.2	64.6	25.8	17.2	12.9	12.9	8.6	0.0	0.0	0.0
80°	1699.8	516.4	47.3	17.2	12.9	8.6	8.6	4.3	0.0	0.0	0.0
82.5°	464.8	133.4	30.1	17.2	12.9	8.6	4.3	0.0	0.0	0.0	0.0
85°	249.6	51.6	17.2	12.9	8.6	4.3	0.0	0.0	0.0	0.0	0.0
87.5°	129.1	17.2	12.9	8.6	8.6	4.3	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)