

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: P484180

Luminaire Tested: **IFLD-S-SA6D-830-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484180
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-830-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

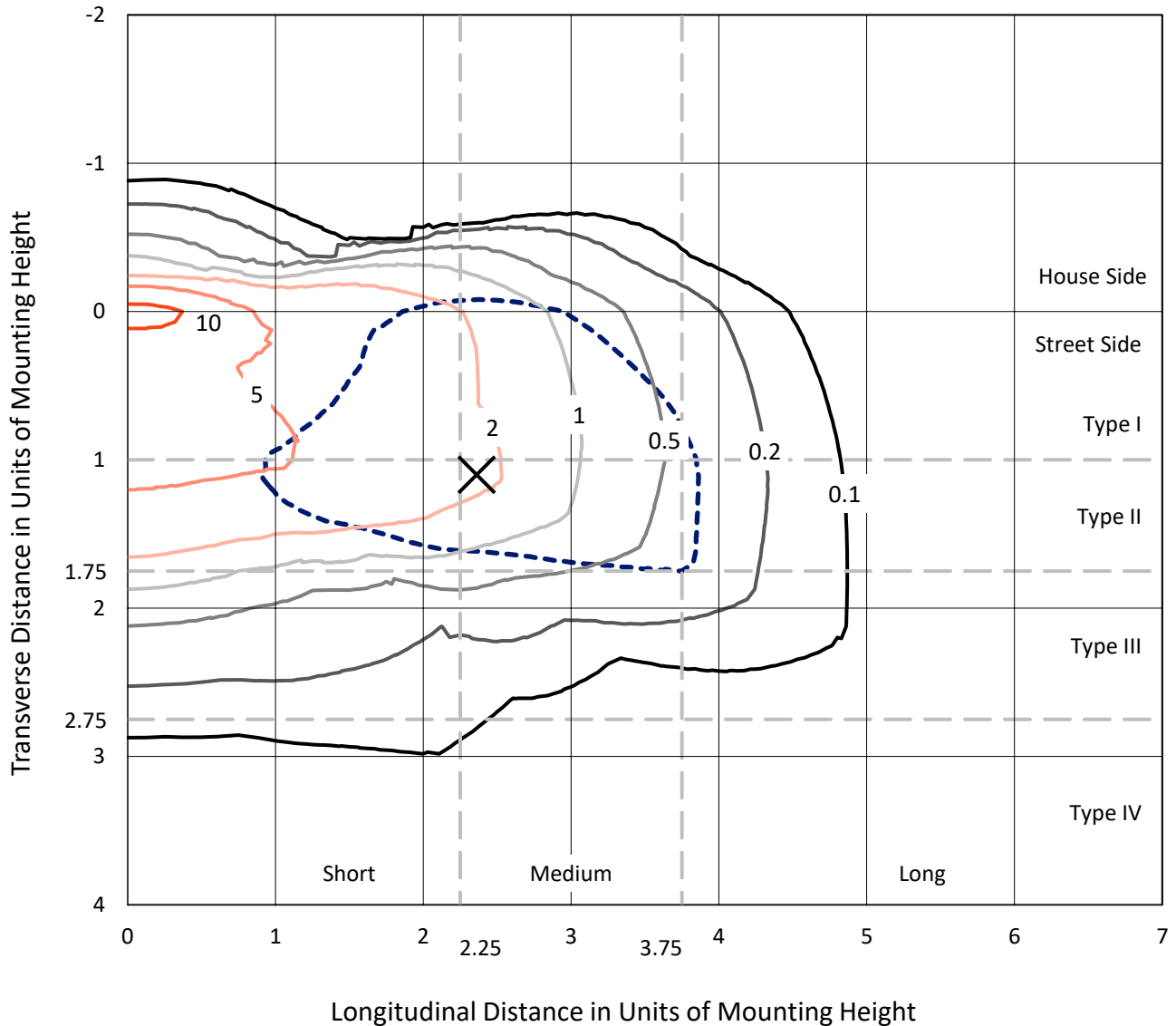
Lumens per Lamp: N/A
Luminaire Lumens: 29902 lumens
Efficiency: N/A
Efficacy: 81.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 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

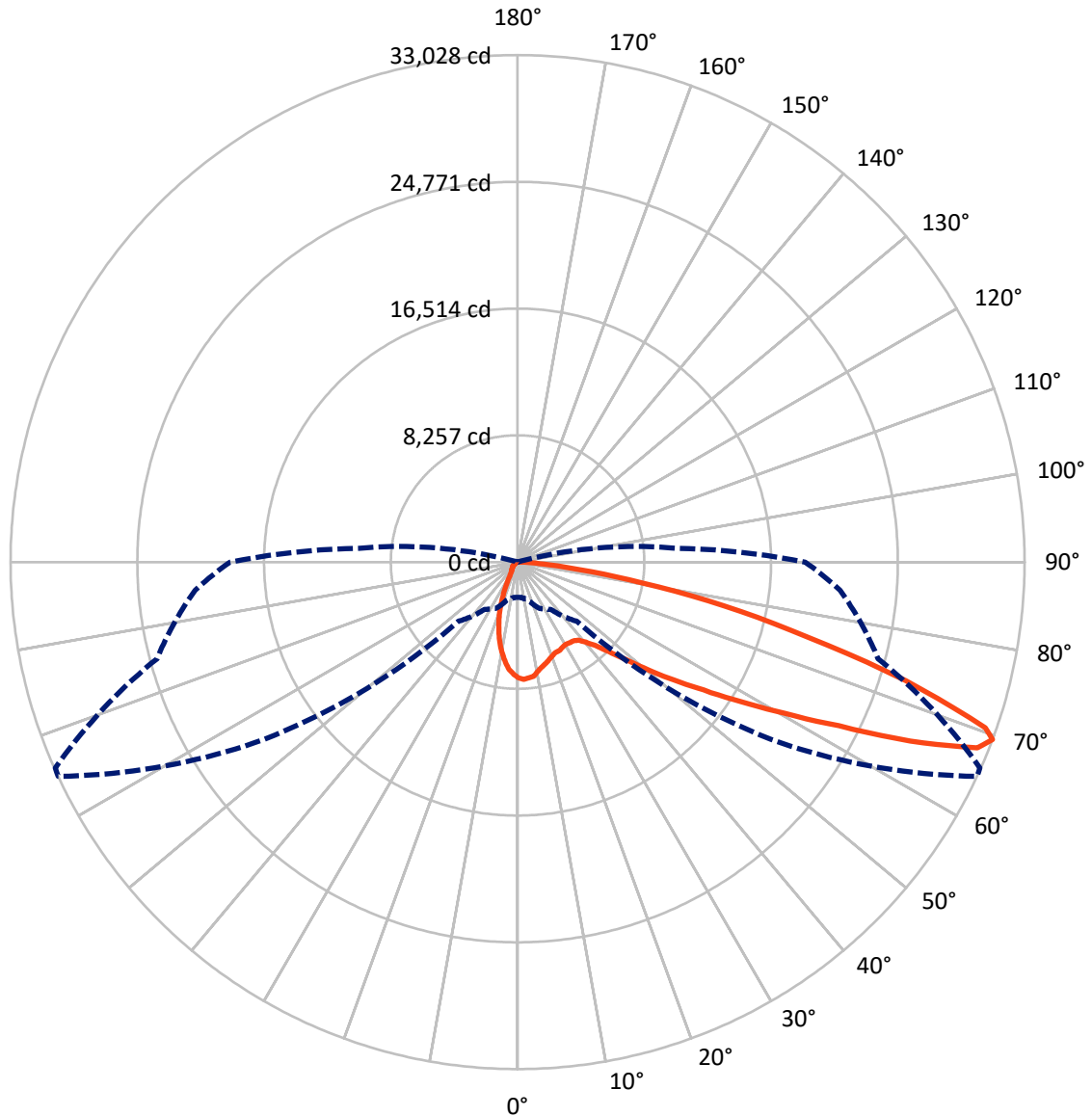
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 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	3627.3	0.0	3627.3
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	26274.7	0.0	26274.7
	% Fixture	87.9	0.0	87.9
Total	Lumens	29902.0	0.0	29902.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	616.9	2.1
10°-20°	1349.8	4.5
20°-30°	1879.3	6.3
30°-40°	2663.1	8.9
40°-50°	4197.0	14.0
50°-60°	6810.3	22.8
60°-70°	7605.7	25.4
70°-80°	4282.9	14.3
80°-90°	497.0	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°	29902.0	100.0
0°-180°	29902.0	100.0



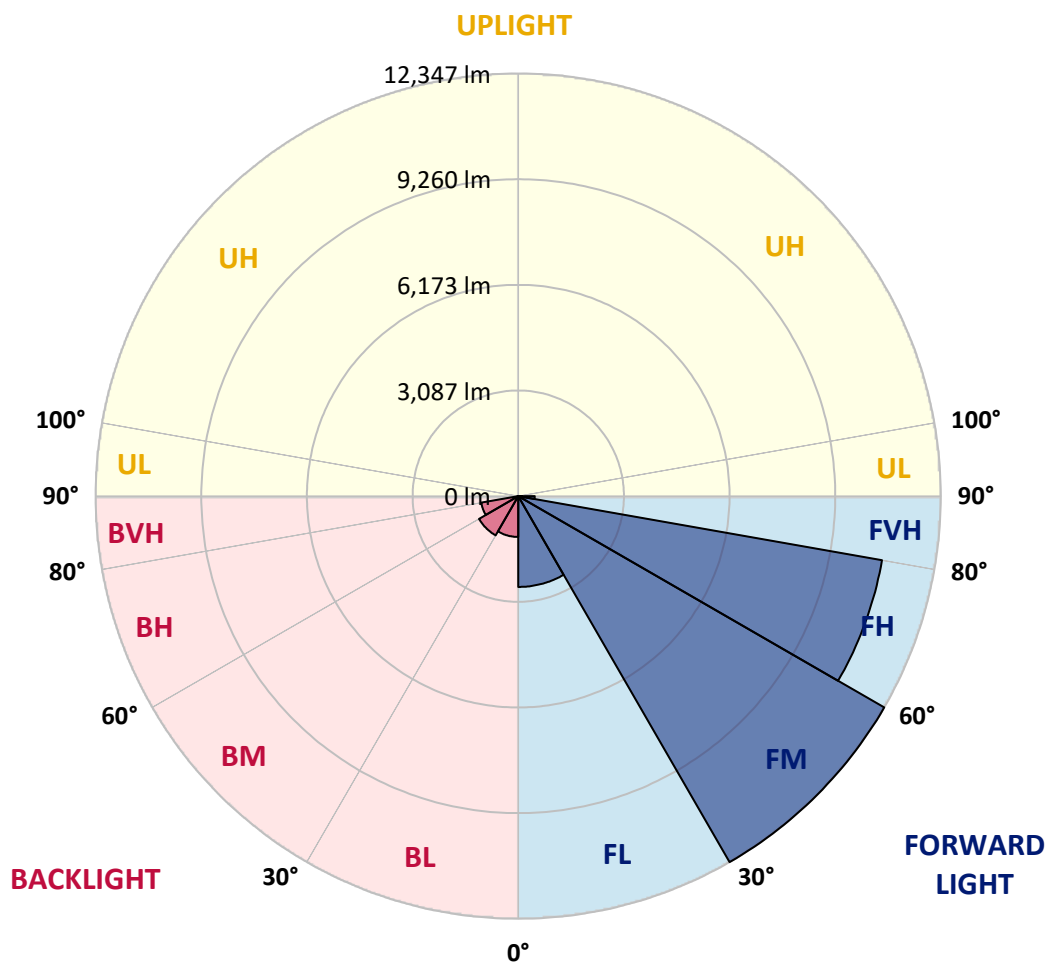
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2653.5	8.9			
FM (30°-60°)	12346.8	41.3			
FH (60°-80°)	10791.1	36.1			G4/12000
FVH (80°-90°)	483.3	1.6			G3/500
BL (0°-30°)	1192.5	4.0	B3/2500		
BM (30°-60°)	1323.6	4.4	B2/2500		
BH (60°-80°)	1097.5	3.7	B3/2500		G3/2500
BVH (80°-90°)	13.7	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°	7539.0	7539.0	7539.0	7539.0	7539.0	7539.0	7539.0	7539.0	7539.0	7539.0	7539.0
2.5°	7260.7	7317.1	7333.3	7389.7	7418.0	7539.0	7607.6	7647.9	7627.7	7672.1	7676.1
5°	6744.3	6712.1	6796.8	6857.3	6986.4	7196.1	7409.9	7575.3	7651.9	7724.5	7712.4
7.5°	6191.7	6175.6	6260.3	6397.4	6514.4	6768.5	7111.4	7518.8	7502.7	7680.2	7732.6
10°	5812.6	5828.7	5856.9	5994.1	6167.5	6425.7	6853.3	7232.4	7317.1	7692.3	7797.1
12.5°	5465.7	5493.9	5546.3	5687.5	5889.2	6155.4	6570.9	7014.6	7143.7	7623.7	7833.4
15°	5352.7	5288.2	5393.1	5497.9	5707.7	5945.7	6296.6	6849.2	6905.7	7543.0	7893.9
17.5°	5259.9	5219.6	5268.0	5352.7	5574.6	5768.2	6098.9	6671.7	6776.6	7510.7	7885.9
20°	5288.2	5251.9	5272.0	5336.6	5437.4	5618.9	5925.5	6502.3	6615.3	7361.5	7873.8
22.5°	5368.9	5397.1	5360.8	5376.9	5409.2	5502.0	5832.7	6381.3	6478.1	7333.3	7942.3
25°	5731.9	5683.5	5635.1	5614.9	5425.3	5465.7	5804.5	6373.2	6441.8	7232.4	7885.9
27.5°	6111.1	6070.7	6050.5	5933.6	5675.4	5554.4	5808.5	6260.3	6353.1	7192.1	7817.3
30°	6570.9	6623.3	6542.7	6401.5	6042.5	5744.0	5852.9	6203.8	6332.9	7038.8	7772.9
32.5°	7054.9	7083.2	7123.5	7018.6	6554.8	6030.4	5986.0	6256.3	6264.3	7038.8	7672.1
35°	7603.5	7563.2	7668.1	7676.1	7268.7	6538.6	6240.1	6292.6	6377.3	7006.5	7635.8
37.5°	8075.5	8144.0	8265.0	8458.7	8039.2	7256.6	6635.4	6462.0	6498.3	7155.8	7664.0
40°	8591.8	8660.3	8934.6	9128.3	8890.3	8063.4	7236.5	6857.3	6885.5	7377.6	7809.2
42.5°	9160.5	9293.6	9620.4	9959.2	9894.7	9087.9	8010.9	7438.1	7426.0	7930.2	8107.7
45°	9931.0	10108.4	10463.4	10854.7	10911.2	10261.7	9043.5	8305.4	8345.7	8652.3	8724.9
47.5°	11003.9	10995.9	11342.8	11778.4	12105.1	11479.9	10277.9	9471.1	9467.1	9793.8	9640.5
50°	12040.6	12044.6	12137.4	12641.6	13488.7	13170.0	11806.6	11020.1	10975.7	11137.0	10891.0
52.5°	12520.6	12464.1	12395.6	13004.6	14553.6	15299.8	13742.8	12774.7	12738.4	12641.6	12577.1
55°	12016.4	12036.6	12032.5	12665.8	15114.3	17546.6	16227.6	14706.9	14646.4	14343.8	14432.6
57.5°	10398.9	10334.3	10475.5	11463.8	14472.9	19079.4	19781.3	17143.2	16985.9	15981.5	15779.8
60°	7740.7	7760.8	7877.8	9043.5	12879.6	19402.1	23181.7	20003.1	19325.4	17135.1	16856.8
62.5°	5405.2	5364.8	5409.2	6062.6	9208.9	18111.3	25480.9	23480.2	22826.7	18446.1	18284.7
65°	3868.3	3815.9	3993.4	4392.7	5530.2	13847.7	25807.6	28110.8	27525.9	20539.6	20152.4
67.5°	2783.3	2775.2	2980.9	3707.0	3928.8	7974.6	23387.4	32305.9	31950.9	23024.3	21289.9
69°	2303.2	2307.3	2504.9	3319.7	3751.3	5445.5	20124.1	33027.9	32963.4	24307.1	21076.1
70°	2008.8	2024.9	2254.8	3089.8	3678.7	4477.4	17348.9	32318.0	32253.4	24557.1	20370.2
72.5°	1238.3	1250.4	1553.0	2476.7	3497.2	3654.5	10374.7	26440.9	26662.7	23411.6	17550.6
75°	593.0	597.0	814.8	1791.0	3372.2	3464.9	5558.4	19511.0	19978.9	18901.9	13714.6
77.5°	314.6	314.6	391.3	952.0	2730.8	3259.2	3299.6	13763.0	14150.2	11951.8	7797.1
80°	157.3	161.3	238.0	496.1	1694.2	3194.7	2577.5	8208.6	8418.3	4876.7	2428.3
82.5°	60.5	64.5	112.9	298.5	879.3	2698.5	2262.9	4037.7	3985.3	1141.5	593.0
85°	8.1	8.1	40.3	177.5	375.1	1189.9	1867.6	1686.1	1629.6	250.1	286.4
87.5°	0.0	0.0	8.1	52.4	112.9	346.9	722.0	463.9	516.3	68.6	141.2
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°	7539.0	7539.0	7539.0	7539.0	7539.0	7539.0	7539.0	7539.0	7539.0	7539.0	7539.0
2.5°	7656.0	7571.2	7442.2	7317.1	7184.0	7022.7	6845.2	6780.6	6667.7	6659.6	6724.2
5°	7647.9	7510.7	7284.9	7018.6	6639.5	6353.1	6042.5	5816.6	5643.1	5530.2	5558.4
7.5°	7688.2	7522.8	7131.6	6558.8	6070.7	5502.0	5022.0	4691.2	4388.7	4239.4	4223.3
10°	7623.7	7401.8	6829.0	6026.3	5308.3	4513.7	3811.8	3368.1	2916.4	2751.0	2759.0
12.5°	7660.0	7349.4	6502.3	5477.8	4489.5	3456.9	2617.9	2012.8	1589.3	1452.1	1436.0
15°	7684.2	7236.5	6187.7	4820.3	3581.9	2355.7	1516.7	1141.5	1008.4	984.2	980.2
17.5°	7591.4	7099.3	5744.0	4170.8	2654.2	1432.0	1008.4	931.8	907.6	891.4	883.4
20°	7587.4	7018.6	5360.8	3505.3	1770.8	976.2	871.3	843.0	806.7	794.6	794.6
22.5°	7518.8	6849.2	4900.9	2775.2	1129.4	839.0	782.5	738.2	697.8	681.7	677.7
25°	7498.6	6651.6	4469.3	2085.4	859.2	750.3	693.8	629.3	580.9	556.7	544.5
27.5°	7442.2	6482.2	4033.7	1468.3	750.3	669.6	597.0	528.4	471.9	435.6	431.6
30°	7240.5	6304.7	3549.7	1016.5	681.7	593.0	512.3	431.6	375.1	350.9	342.9
32.5°	7155.8	6139.3	3021.2	782.5	621.2	524.4	431.6	359.0	314.6	290.4	286.4
35°	7054.9	5897.3	2509.0	681.7	564.7	455.8	363.0	302.5	266.2	246.1	246.1
37.5°	7067.0	5703.6	2028.9	617.2	504.2	391.3	310.6	258.2	225.9	205.7	205.7
40°	7030.7	5550.4	1577.2	560.7	447.7	334.8	262.2	217.8	189.6	169.4	165.4
42.5°	7196.1	5510.0	1189.9	512.3	391.3	286.4	225.9	185.6	157.3	133.1	133.1
45°	7474.4	5574.6	927.8	467.9	334.8	246.1	193.6	153.3	125.0	108.9	104.9
47.5°	8216.6	5828.7	726.1	431.6	286.4	213.8	161.3	125.0	100.8	84.7	80.7
50°	9293.6	6397.4	617.2	379.2	242.0	181.5	133.1	96.8	80.7	64.5	60.5
52.5°	10826.4	7353.4	560.7	334.8	201.7	149.2	104.9	76.6	60.5	48.4	44.4
55°	12496.4	8547.4	508.2	282.4	169.4	121.0	84.7	60.5	44.4	32.3	28.2
57.5°	13799.3	9580.0	463.9	234.0	137.1	96.8	64.5	44.4	32.3	20.2	16.1
60°	15223.2	10306.1	407.4	185.6	112.9	72.6	48.4	32.3	24.2	12.1	12.1
62.5°	16691.4	11157.2	334.8	145.2	88.7	56.5	36.3	24.2	16.1	4.0	4.0
65°	18732.5	11822.8	258.2	112.9	68.6	40.3	28.2	20.2	8.1	0.0	0.0
67.5°	19309.3	11496.0	189.6	88.7	48.4	28.2	20.2	12.1	4.0	0.0	0.0
69°	18732.5	10354.5	165.4	76.6	40.3	24.2	16.1	8.1	4.0	0.0	0.0
70°	17679.7	9467.1	145.2	64.5	36.3	24.2	12.1	8.1	4.0	0.0	0.0
72.5°	14787.5	7260.7	112.9	48.4	28.2	20.2	12.1	8.1	0.0	0.0	0.0
75°	10846.6	4485.5	84.7	36.3	24.2	16.1	12.1	8.1	0.0	0.0	0.0
77.5°	5812.6	1637.7	60.5	24.2	16.1	12.1	12.1	8.1	0.0	0.0	0.0
80°	1593.3	484.0	44.4	16.1	12.1	8.1	8.1	4.0	0.0	0.0	0.0
82.5°	435.6	125.0	28.2	16.1	12.1	8.1	4.0	0.0	0.0	0.0	0.0
85°	234.0	48.4	16.1	12.1	8.1	4.0	0.0	0.0	0.0	0.0	0.0
87.5°	121.0	16.1	12.1	8.1	8.1	4.0	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)