

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: P484848

Luminaire Tested: **IFLD-M-SA4D-750-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484848
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-750-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

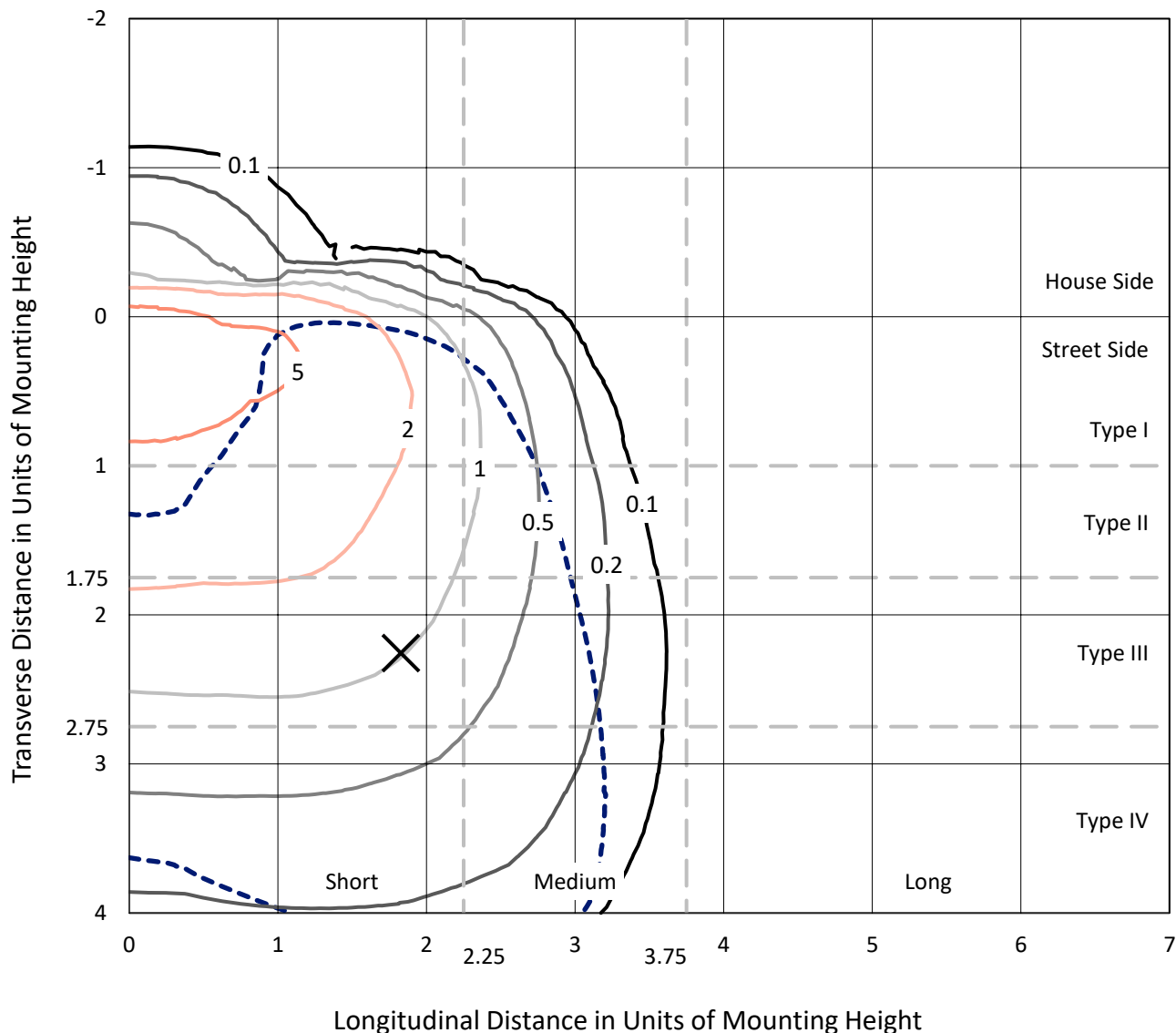
Lumens per Lamp: N/A
Luminaire Lumens: 26436 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 249.7
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

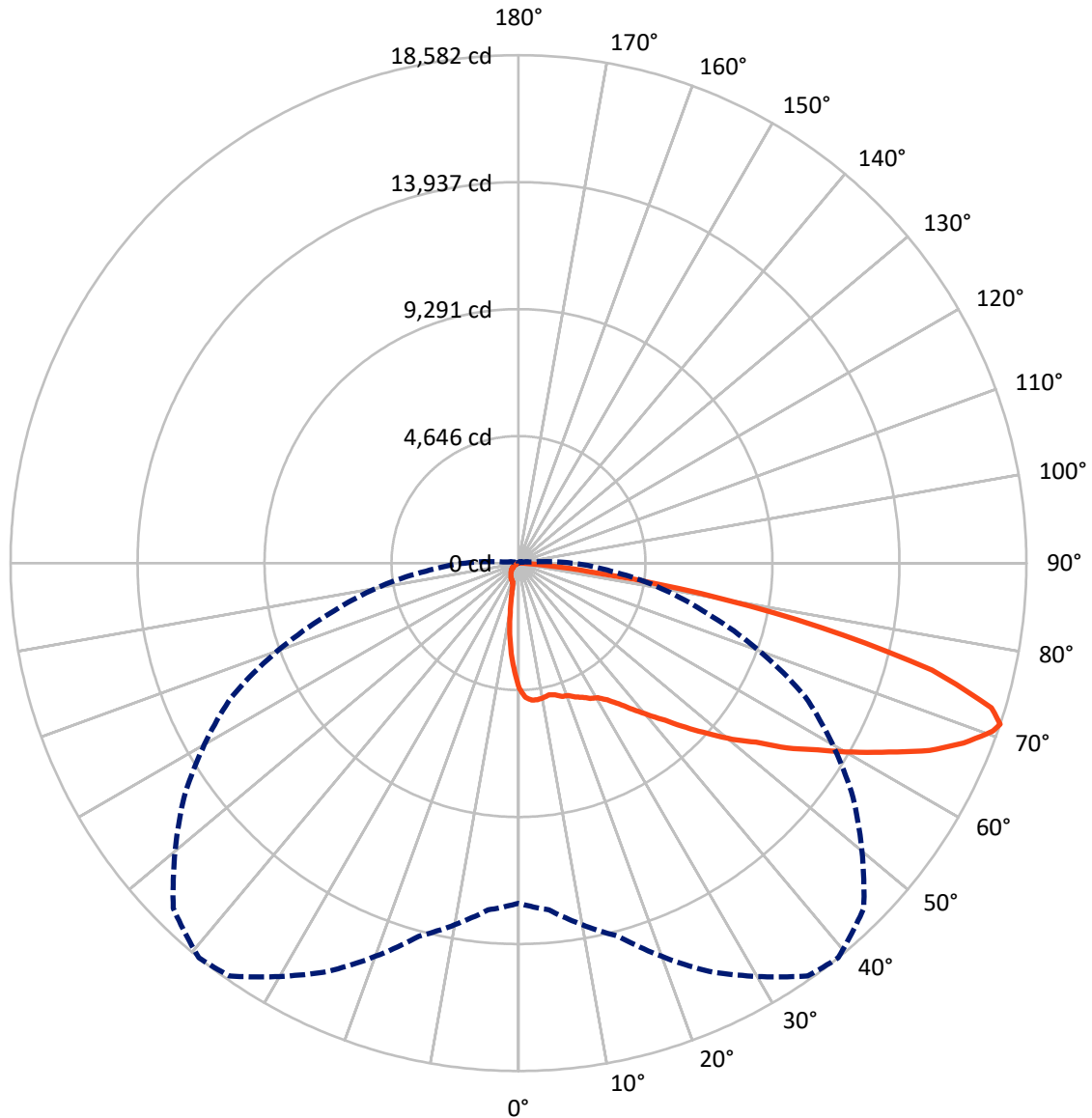
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1990.2	0.0	1990.2
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	24445.8	0.0	24445.8
	% Fixture	92.5	0.0	92.5
Total	Lumens	26436.0	0.0	26436.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	384.7	1.5
10°-20°	946.9	3.6
20°-30°	1520.1	5.7
30°-40°	2326.9	8.8
40°-50°	3735.0	14.1
50°-60°	5486.2	20.8
60°-70°	6909.6	26.1
70°-80°	4611.3	17.4
80°-90°	515.3	1.9
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°	26436.0	100.0
0°-180°	26436.0	100.0

Coefficient of Utilization



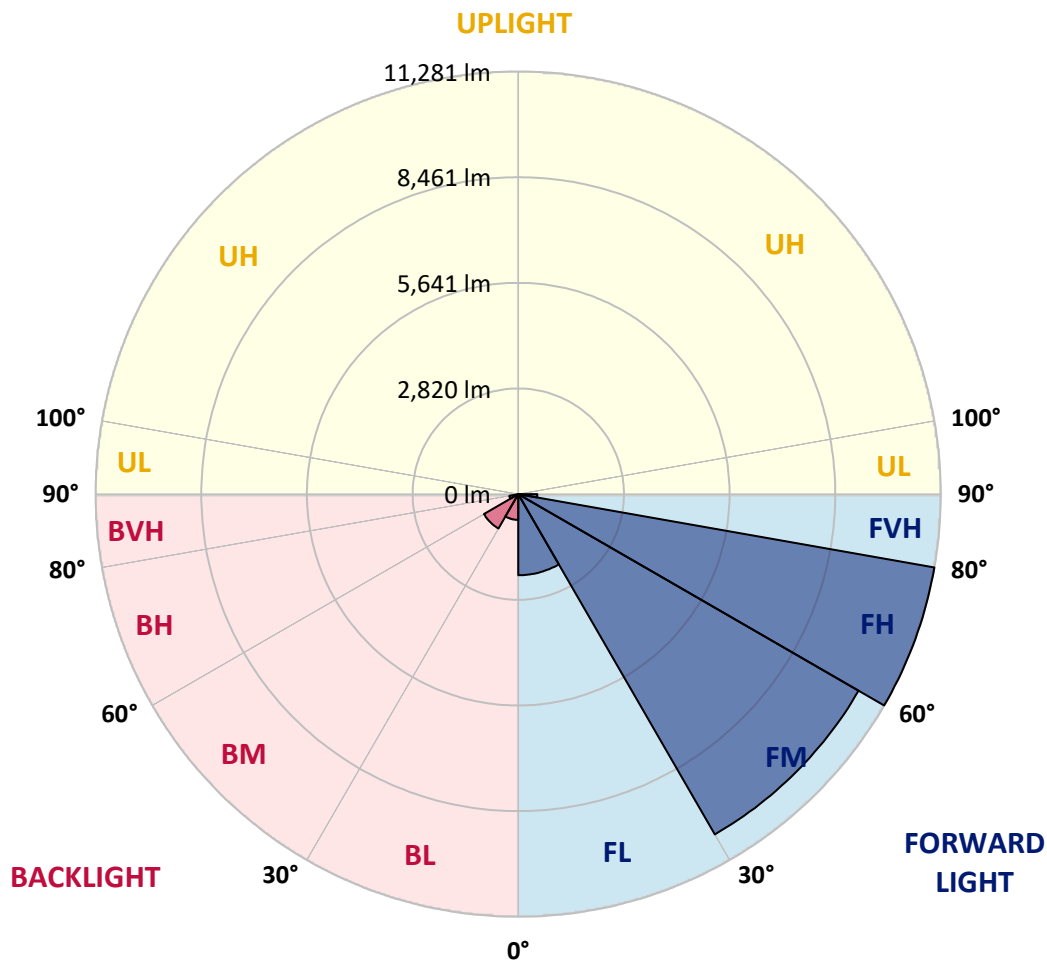
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2164.6	8.2			
FM (30°-60°)	10490.2	39.7			
FH (60°-80°)	11281.4	42.7			G4/12000
FVH (80°-90°)	509.7	1.9			G4/750
BL (0°-30°)	687.1	2.6	B2/1000		
BM (30°-60°)	1057.9	4.0	B2/2500		
BH (60°-80°)	239.5	0.9	B1/500		G1/500
BVH (80°-90°)	5.7	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4601.4	4601.4	4601.4	4601.4	4601.4	4601.4	4601.4	4601.4	4601.4	4601.4	4601.4
2.5°	4958.5	5007.1	4958.5	4937.7	4916.9	4920.4	4864.9	4875.3	4809.4	4722.7	4653.4
5°	5114.5	5180.4	5128.4	5104.1	5100.7	5034.8	5007.1	4941.2	4861.4	4726.2	4643.0
7.5°	5100.7	5086.8	5111.1	5090.3	5045.2	5045.2	5014.0	4920.4	4840.6	4688.0	4545.9
10°	4996.7	5038.3	5017.5	4993.2	5003.6	5007.1	4948.1	4882.2	4858.0	4705.4	4473.1
12.5°	4986.3	4916.9	4993.2	4996.7	4951.6	4948.1	4941.2	4923.8	4847.6	4708.9	4490.4
15°	4951.6	4923.8	5000.1	5003.6	5014.0	5003.6	5014.0	5000.1	4923.8	4844.1	4566.7
17.5°	4979.3	4948.1	5055.6	5107.6	5083.3	5131.9	5114.5	5052.1	4986.3	4892.6	4639.5
20°	4986.3	5031.3	5149.2	5170.0	5246.3	5166.6	5163.1	5097.2	5055.6	4955.0	4684.6
22.5°	5114.5	5135.4	5281.0	5326.1	5329.5	5319.1	5232.4	5156.2	5138.8	5014.0	4695.0
25°	5308.7	5381.5	5447.4	5475.2	5485.6	5437.0	5346.9	5249.8	5208.2	5128.4	4802.5
27.5°	5652.0	5606.9	5665.9	5707.5	5589.6	5606.9	5492.5	5409.3	5350.3	5281.0	4927.3
30°	5957.1	5915.5	5919.0	5912.1	5811.5	5717.9	5686.7	5541.0	5468.2	5496.0	5121.5
32.5°	6231.1	6140.9	6217.2	6182.5	5995.3	5967.6	5943.3	5759.5	5773.4	5901.7	5412.8
35°	6484.2	6453.0	6515.4	6453.0	6328.2	6321.2	6297.0	6137.5	6213.7	6397.5	5912.1
37.5°	6716.5	6726.9	6803.2	6772.0	6782.4	6789.3	6775.5	6605.6	6824.0	7236.7	6494.6
40°	6931.5	6917.6	7104.9	7202.0	7222.8	7299.1	7299.1	7257.5	7593.8	8058.4	7302.5
42.5°	7160.4	7195.0	7437.8	7600.7	7798.4	7864.3	7954.4	7975.2	8495.4	9025.9	8127.8
45°	7534.9	7475.9	7784.5	8169.4	8342.8	8575.1	8713.8	8831.7	9459.3	10187.5	8953.1
47.5°	8009.9	7892.0	8162.5	8720.7	9123.0	9313.7	9563.3	9719.4	10333.1	11085.6	9733.2
50°	8537.0	8415.6	8547.4	9317.1	9785.3	10132.0	10451.0	10648.7	11390.7	12091.1	10301.9
52.5°	9133.4	9022.4	9043.2	9937.8	10627.9	10881.0	11300.6	11595.3	12333.9	12698.0	10503.0
55°	9767.9	9740.2	9674.3	10544.6	11366.4	11935.1	12188.2	12541.9	13301.3	13027.4	10721.5
57.5°	10405.9	10319.3	10412.9	11349.1	12552.3	12892.1	13242.3	13453.9	13838.8	13315.2	10638.3
60°	11005.8	11012.8	11144.5	12222.9	13561.4	14043.3	14358.9	14230.6	14390.1	13440.0	10447.5
62.5°	11512.1	11498.2	11831.1	13204.2	14896.3	15222.3	15458.1	14885.9	14646.7	13561.4	10114.7
65°	11966.3	12122.3	12645.9	14372.7	16151.6	16526.1	16383.9	15506.6	14896.3	13204.2	9178.4
67.5°	12309.6	12541.9	13450.4	15471.9	17302.8	17566.3	17368.7	15978.2	14601.6	11803.3	7475.9
70°	12510.7	12746.5	14026.0	16387.4	18221.7	18412.4	17947.7	15614.1	12881.7	8547.4	4663.8
71°	12448.3	12736.1	14137.0	16484.5	18440.1	18582.3	17861.0	14941.4	11584.9	7156.9	3401.6
72.5°	11883.1	12153.6	13675.8	16415.1	18176.6	18089.9	17184.9	13325.6	9119.5	4563.2	1758.0
75°	8731.1	9022.4	11737.5	14199.4	16224.4	15628.0	13908.1	9351.8	4757.4	1397.4	513.2
77.5°	4348.2	4396.8	7285.2	10308.8	11900.4	11307.5	9320.6	5215.1	1778.8	412.6	256.6
80°	2004.2	2018.1	2732.4	5339.9	7195.0	6772.0	5222.0	2572.9	804.5	218.5	201.1
82.5°	1366.2	1387.0	1647.1	2212.3	3124.2	2635.3	2115.2	1647.1	461.2	131.8	197.6
85°	249.7	228.9	922.4	1172.0	1206.7	818.3	731.6	1425.1	173.4	76.3	173.4
87.5°	0.0	3.5	128.3	478.5	430.0	190.7	249.7	346.7	17.3	24.3	31.2
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°	4601.4	4601.4	4601.4	4601.4	4601.4	4601.4	4601.4	4601.4	4601.4	4601.4	4601.4
2.5°	4594.4	4556.3	4428.0	4285.8	4157.5	4057.0	3928.7	3869.7	3776.1	3724.1	3720.6
5°	4528.5	4424.5	4202.6	3963.3	3696.3	3474.4	3228.2	3089.5	2930.0	2881.5	2871.1
7.5°	4417.6	4268.5	3942.5	3606.2	3197.0	2805.2	2503.5	2181.1	1983.4	1900.2	1869.0
10°	4348.2	4167.9	3724.1	3221.3	2649.2	2097.8	1674.8	1331.5	1151.2	1064.5	1043.7
12.5°	4348.2	4154.1	3547.2	2853.7	2094.4	1435.5	1036.8	839.1	780.2	759.4	759.4
15°	4337.8	4126.3	3377.3	2475.8	1550.0	964.0	773.3	731.6	724.7	721.2	717.8
17.5°	4389.8	4077.8	3204.0	2070.1	1095.7	759.4	710.8	703.9	697.0	697.0	690.0
20°	4428.0	4050.0	2995.9	1640.1	818.3	703.9	683.1	672.7	669.2	665.8	672.7
22.5°	4396.8	4008.4	2739.3	1227.5	714.3	669.2	655.4	645.0	638.0	638.0	641.5
25°	4455.7	3970.3	2482.7	925.8	669.2	638.0	624.1	617.2	613.7	610.3	603.3
27.5°	4535.5	3987.6	2177.6	745.5	631.1	606.8	592.9	586.0	582.5	575.6	582.5
30°	4632.6	3984.1	1841.2	651.9	596.4	572.1	558.3	554.8	547.9	544.4	547.9
32.5°	4799.0	4074.3	1494.5	603.3	558.3	537.5	523.6	520.1	516.7	513.2	509.7
35°	5156.2	4185.3	1168.5	565.2	523.6	499.3	488.9	482.0	478.5	475.0	471.6
37.5°	5596.5	4431.5	891.1	530.5	488.9	464.6	454.2	450.8	436.9	433.4	430.0
40°	6147.9	4695.0	686.6	492.4	457.7	433.4	423.0	412.6	395.3	388.4	381.4
42.5°	6834.4	4951.6	565.2	457.7	423.0	405.7	388.4	371.0	357.2	343.3	336.3
45°	7521.0	5249.8	495.9	426.5	395.3	374.5	360.6	336.3	312.1	291.3	287.8
47.5°	8093.1	5357.3	454.2	391.8	367.6	350.2	329.4	298.2	263.5	242.7	239.3
50°	8519.6	5294.9	412.6	357.2	336.3	319.0	291.3	253.1	218.5	197.6	190.7
52.5°	8602.8	5020.9	374.5	329.4	305.1	284.3	253.1	211.5	173.4	152.6	149.1
55°	8543.9	4566.7	343.3	305.1	277.4	246.2	211.5	169.9	135.2	114.4	111.0
57.5°	8422.5	4029.2	308.6	273.9	242.7	211.5	173.4	138.7	100.6	79.8	79.8
60°	8009.9	3297.6	273.9	239.3	208.0	180.3	142.2	100.6	69.3	52.0	48.5
62.5°	7434.3	2534.7	239.3	204.6	180.3	149.1	111.0	72.8	41.6	27.7	27.7
65°	6383.7	1775.4	201.1	169.9	149.1	121.4	83.2	45.1	24.3	10.4	10.4
67.5°	4851.0	1099.2	166.4	142.2	128.3	97.1	58.9	27.7	10.4	3.5	0.0
70°	2784.4	572.1	131.8	114.4	100.6	72.8	41.6	13.9	6.9	0.0	0.0
71°	1945.3	423.0	117.9	100.6	90.2	65.9	34.7	10.4	3.5	0.0	0.0
72.5°	974.4	280.9	100.6	83.2	72.8	52.0	27.7	10.4	3.5	0.0	0.0
75°	346.7	180.3	69.3	55.5	52.0	38.1	17.3	6.9	3.5	0.0	0.0
77.5°	239.3	145.6	48.5	34.7	34.7	24.3	10.4	3.5	3.5	0.0	0.0
80°	218.5	79.8	31.2	20.8	17.3	13.9	6.9	3.5	0.0	0.0	0.0
82.5°	218.5	58.9	17.3	13.9	10.4	6.9	3.5	0.0	0.0	0.0	0.0
85°	152.6	31.2	10.4	10.4	6.9	3.5	0.0	0.0	0.0	0.0	0.0
87.5°	24.3	10.4	6.9	3.5	3.5	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)