

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: P484816

Luminaire Tested: **IFLD-L-SA8A-740-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484816
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-740-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

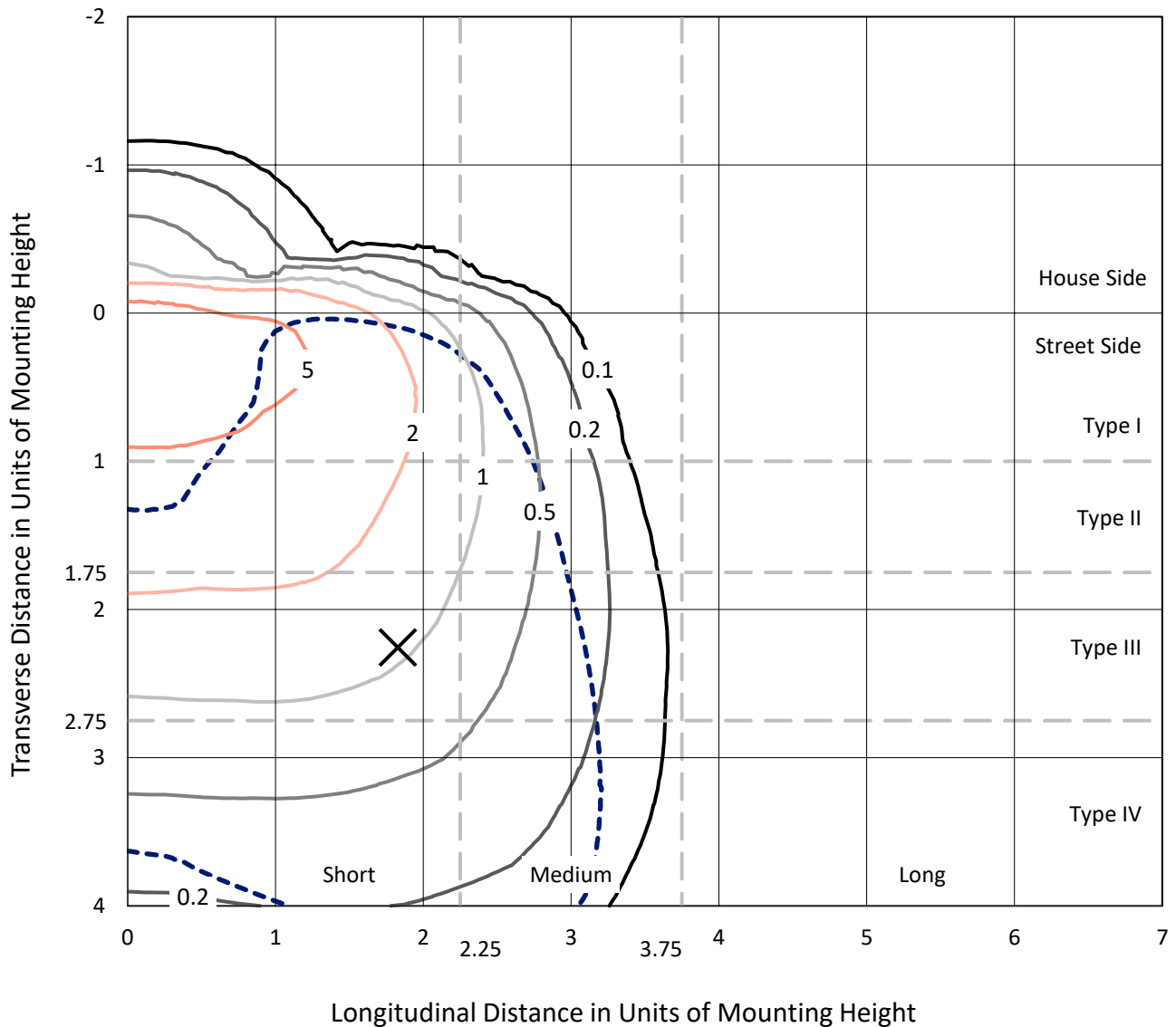
Lumens per Lamp: N/A
Luminaire Lumens: 28299.7 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 247.8
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

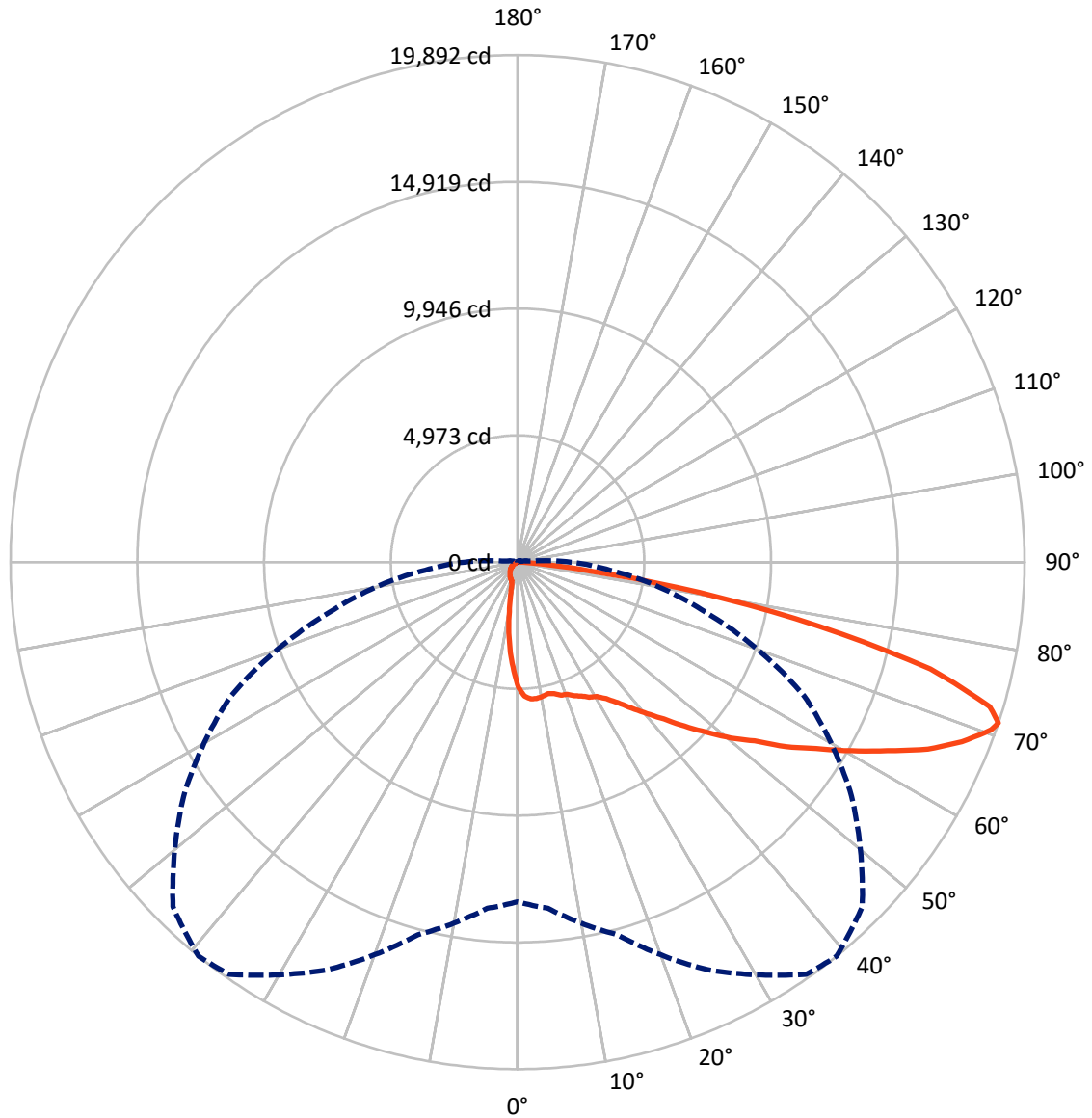
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 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	2130.5	0.0	2130.5
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	26169.2	0.0	26169.2
	% Fixture	92.5	0.0	92.5
Total	Lumens	28299.7	0.0	28299.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	411.8	1.5
10°-20°	1013.6	3.6
20°-30°	1627.2	5.8
30°-40°	2490.9	8.8
40°-50°	3998.4	14.1
50°-60°	5872.9	20.8
60°-70°	7396.7	26.1
70°-80°	4936.4	17.4
80°-90°	551.7	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°	28299.7	100.0
0°-180°	28299.7	100.0



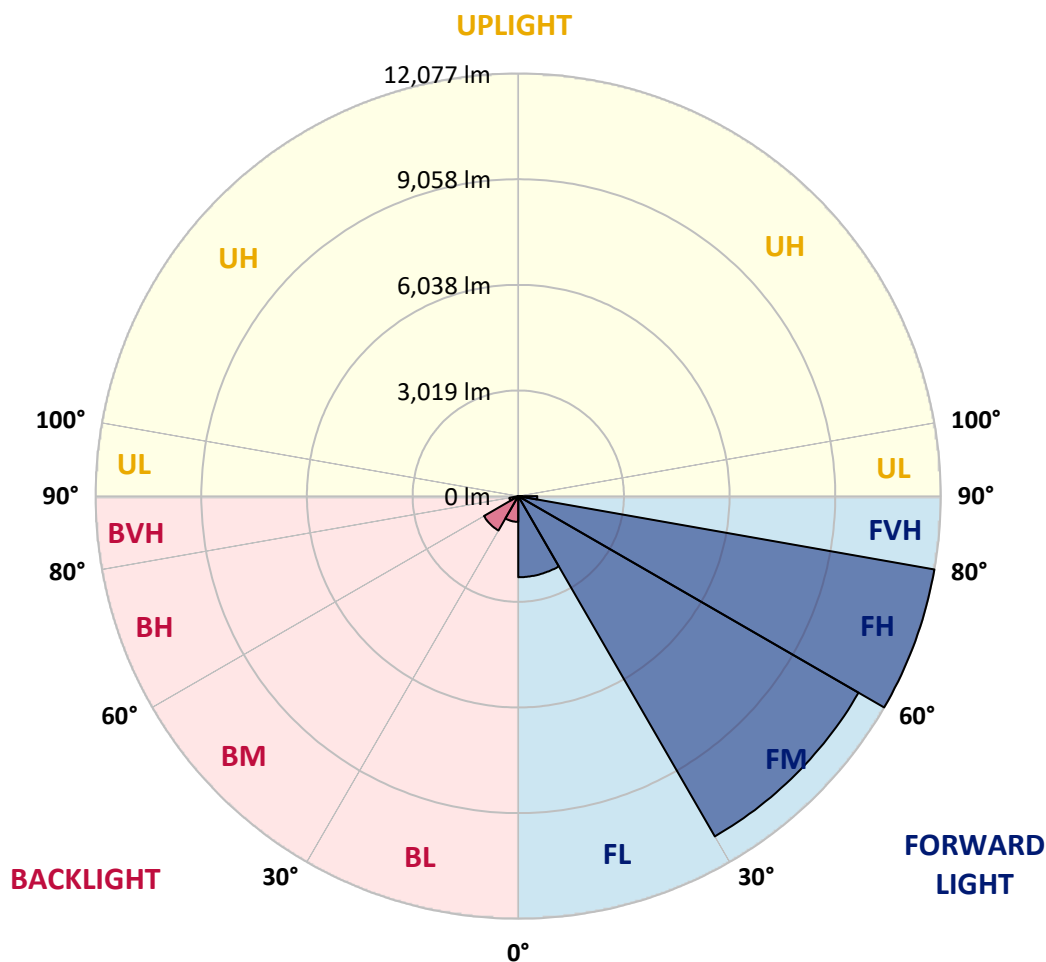
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2317.1	8.2			
FM (30°-60°)	11229.7	39.7			
FH (60°-80°)	12076.7	42.7			G5
FVH (80°-90°)	545.6	1.9			G4/750
BL (0°-30°)	735.6	2.6	B2/1000		
BM (30°-60°)	1132.5	4.0	B2/2500		
BH (60°-80°)	256.4	0.9	B1/500		G1/500
BVH (80°-90°)	6.1	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4925.7	4925.7	4925.7	4925.7	4925.7	4925.7	4925.7	4925.7	4925.7	4925.7	4925.7
2.5°	5308.1	5360.0	5308.1	5285.8	5263.5	5267.2	5207.8	5219.0	5148.5	5055.7	4981.4
5°	5475.1	5545.6	5490.0	5464.0	5460.3	5389.7	5360.0	5289.5	5204.1	5059.4	4970.3
7.5°	5460.3	5445.4	5471.4	5449.1	5400.9	5400.9	5367.5	5267.2	5181.9	5018.5	4866.3
10°	5348.9	5393.4	5371.2	5345.2	5356.3	5360.0	5296.9	5226.4	5200.4	5037.1	4788.4
12.5°	5337.8	5263.5	5345.2	5348.9	5300.6	5296.9	5289.5	5270.9	5189.3	5040.8	4807.0
15°	5300.6	5270.9	5352.6	5356.3	5367.5	5356.3	5367.5	5352.6	5270.9	5185.6	4888.6
17.5°	5330.3	5296.9	5412.0	5467.7	5441.7	5493.7	5475.1	5408.3	5337.8	5237.5	4966.6
20°	5337.8	5386.0	5512.2	5534.5	5616.2	5530.8	5527.1	5456.5	5412.0	5304.4	5014.8
22.5°	5475.1	5497.4	5653.3	5701.5	5705.2	5694.1	5601.3	5519.6	5501.1	5367.5	5026.0
25°	5683.0	5760.9	5831.5	5861.1	5872.3	5820.3	5723.8	5619.9	5575.3	5490.0	5141.0
27.5°	6050.5	6002.2	6065.3	6109.8	5983.6	6002.2	5879.7	5790.6	5727.5	5653.3	5274.7
30°	6377.1	6332.6	6336.3	6328.9	6221.2	6121.0	6087.6	5931.7	5853.7	5883.4	5482.5
32.5°	6670.3	6573.8	6655.5	6618.4	6417.9	6388.2	6362.3	6165.5	6180.4	6317.7	5794.3
35°	6941.3	6907.9	6974.7	6907.9	6774.3	6766.9	6740.9	6570.1	6651.8	6848.5	6328.9
37.5°	7190.0	7201.2	7282.8	7249.4	7260.5	7268.0	7253.1	7071.2	7305.1	7746.8	6952.5
40°	7420.2	7405.3	7605.8	7709.7	7732.0	7813.6	7813.6	7769.1	8129.1	8626.5	7817.3
42.5°	7665.1	7702.3	7962.1	8136.6	8348.1	8418.7	8515.2	8537.5	9094.2	9662.2	8700.8
45°	8066.0	8002.9	8333.3	8745.3	8930.9	9179.6	9328.1	9454.3	10126.2	10905.7	9584.2
47.5°	8574.6	8448.4	8737.9	9335.5	9766.1	9970.3	10237.5	10404.6	11061.6	11867.1	10419.4
50°	9138.8	9008.9	9149.9	9974.0	10475.1	10846.3	11187.8	11399.4	12193.7	12943.5	11028.2
52.5°	9777.2	9658.5	9680.7	10638.4	11377.1	11648.1	12097.2	12412.7	13203.4	13593.1	11243.5
55°	10456.5	10426.8	10356.3	11288.0	12167.7	12776.5	13047.5	13426.1	14239.0	13945.7	11477.3
57.5°	11139.5	11046.7	11146.9	12149.2	13437.2	13801.0	14175.9	14402.3	14814.3	14253.8	11388.2
60°	11781.7	11789.1	11930.2	13084.6	14517.4	15033.3	15371.1	15233.8	15404.5	14387.5	11184.1
62.5°	12323.6	12308.8	12665.1	14135.1	15946.5	16295.4	16547.8	15935.3	15679.2	14517.4	10827.7
65°	12809.9	12976.9	13537.4	15386.0	17290.2	17691.1	17538.9	16599.8	15946.5	14135.1	9825.5
67.5°	13177.4	13426.1	14398.6	16562.7	18522.6	18804.7	18593.1	17104.6	15631.0	12635.4	8002.9
70°	13392.7	13645.1	15014.8	17542.6	19506.2	19710.4	19213.0	16714.8	13789.8	9149.9	4992.6
71°	13325.9	13633.9	15133.6	17646.5	19740.1	19892.3	19120.2	15994.7	12401.6	7661.4	3641.4
72.5°	12720.8	13010.3	14639.9	17572.3	19458.0	19365.2	18396.4	14265.0	9762.4	4884.9	1882.0
75°	9346.7	9658.5	12564.9	15200.4	17368.1	16729.7	14888.6	10011.1	5092.8	1495.9	549.4
77.5°	4654.8	4706.7	7798.8	11035.6	12739.4	12104.6	9977.7	5582.8	1904.2	441.7	274.7
80°	2145.5	2160.3	2925.0	5716.4	7702.3	7249.4	5590.2	2754.3	861.2	233.9	215.3
82.5°	1462.5	1484.8	1763.2	2368.2	3344.5	2821.1	2264.3	1763.2	493.7	141.1	211.6
85°	267.3	245.0	987.4	1254.6	1291.8	876.0	783.2	1525.6	185.6	81.7	185.6
87.5°	0.0	3.7	137.3	512.2	460.3	204.2	267.3	371.2	18.6	26.0	33.4
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°	4925.7	4925.7	4925.7	4925.7	4925.7	4925.7	4925.7	4925.7	4925.7	4925.7	4925.7
2.5°	4918.3	4877.5	4740.1	4588.0	4450.6	4343.0	4205.6	4142.5	4042.3	3986.6	3982.9
5°	4847.8	4736.4	4498.9	4242.7	3956.9	3719.4	3455.8	3307.3	3136.6	3084.6	3073.5
7.5°	4729.0	4569.4	4220.5	3860.4	3422.4	3003.0	2680.0	2334.8	2123.2	2034.1	2000.7
10°	4654.8	4461.7	3986.6	3448.4	2835.9	2245.7	1792.9	1425.4	1232.4	1139.6	1117.3
12.5°	4654.8	4446.9	3797.3	3054.9	2242.0	1536.7	1109.9	898.3	835.2	812.9	812.9
15°	4643.6	4417.2	3615.4	2650.3	1659.2	1031.9	827.8	783.2	775.8	772.1	768.4
17.5°	4699.3	4365.2	3429.8	2216.0	1173.0	812.9	760.9	753.5	746.1	746.1	738.7
20°	4740.1	4335.5	3207.1	1755.7	876.0	753.5	731.3	720.1	716.4	712.7	720.1
22.5°	4706.7	4291.0	2932.4	1314.0	764.7	716.4	701.6	690.4	683.0	683.0	686.7
25°	4769.8	4250.2	2657.7	991.1	716.4	683.0	668.1	660.7	657.0	653.3	645.9
27.5°	4855.2	4268.7	2331.1	798.1	675.6	649.6	634.7	627.3	623.6	616.2	623.6
30°	4959.1	4265.0	1971.0	697.8	638.5	612.5	597.6	593.9	586.5	582.8	586.5
32.5°	5137.3	4361.5	1599.8	645.9	597.6	575.4	560.5	556.8	553.1	549.4	545.7
35°	5519.6	4480.3	1250.9	605.0	560.5	534.5	523.4	516.0	512.2	508.5	504.8
37.5°	5991.1	4743.9	954.0	567.9	523.4	497.4	486.3	482.6	467.7	464.0	460.3
40°	6581.3	5026.0	735.0	527.1	490.0	464.0	452.9	441.7	423.2	415.7	408.3
42.5°	7316.2	5300.6	605.0	490.0	452.9	434.3	415.7	397.2	382.3	367.5	360.1
45°	8051.2	5619.9	530.8	456.6	423.2	400.9	386.0	360.1	334.1	311.8	308.1
47.5°	8663.7	5734.9	486.3	419.4	393.5	374.9	352.6	319.2	282.1	259.8	256.1
50°	9120.2	5668.1	441.7	382.3	360.1	341.5	311.8	271.0	233.9	211.6	204.2
52.5°	9209.3	5374.9	400.9	352.6	326.7	304.4	271.0	226.4	185.6	163.3	159.6
55°	9146.2	4888.6	367.5	326.7	297.0	263.5	226.4	181.9	144.8	122.5	118.8
57.5°	9016.3	4313.3	330.4	293.2	259.8	226.4	185.6	148.5	107.6	85.4	85.4
60°	8574.6	3530.1	293.2	256.1	222.7	193.0	152.2	107.6	74.2	55.7	52.0
62.5°	7958.4	2713.4	256.1	219.0	193.0	159.6	118.8	78.0	44.5	29.7	29.7
65°	6833.7	1900.5	215.3	181.9	159.6	129.9	89.1	48.3	26.0	11.1	11.1
67.5°	5193.0	1176.7	178.2	152.2	137.3	103.9	63.1	29.7	11.1	3.7	0.0
70°	2980.7	612.5	141.1	122.5	107.6	78.0	44.5	14.8	7.4	0.0	0.0
71°	2082.4	452.9	126.2	107.6	96.5	70.5	37.1	11.1	3.7	0.0	0.0
72.5°	1043.1	300.7	107.6	89.1	78.0	55.7	29.7	11.1	3.7	0.0	0.0
75°	371.2	193.0	74.2	59.4	55.7	40.8	18.6	7.4	3.7	0.0	0.0
77.5°	256.1	155.9	52.0	37.1	37.1	26.0	11.1	3.7	3.7	0.0	0.0
80°	233.9	85.4	33.4	22.3	18.6	14.8	7.4	3.7	0.0	0.0	0.0
82.5°	233.9	63.1	18.6	14.8	11.1	7.4	3.7	0.0	0.0	0.0	0.0
85°	163.3	33.4	11.1	11.1	7.4	3.7	0.0	0.0	0.0	0.0	0.0
87.5°	26.0	11.1	7.4	3.7	3.7	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)