

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: P484695

Luminaire Tested: **IFLD-L-SA7B-727-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484695
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-727-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

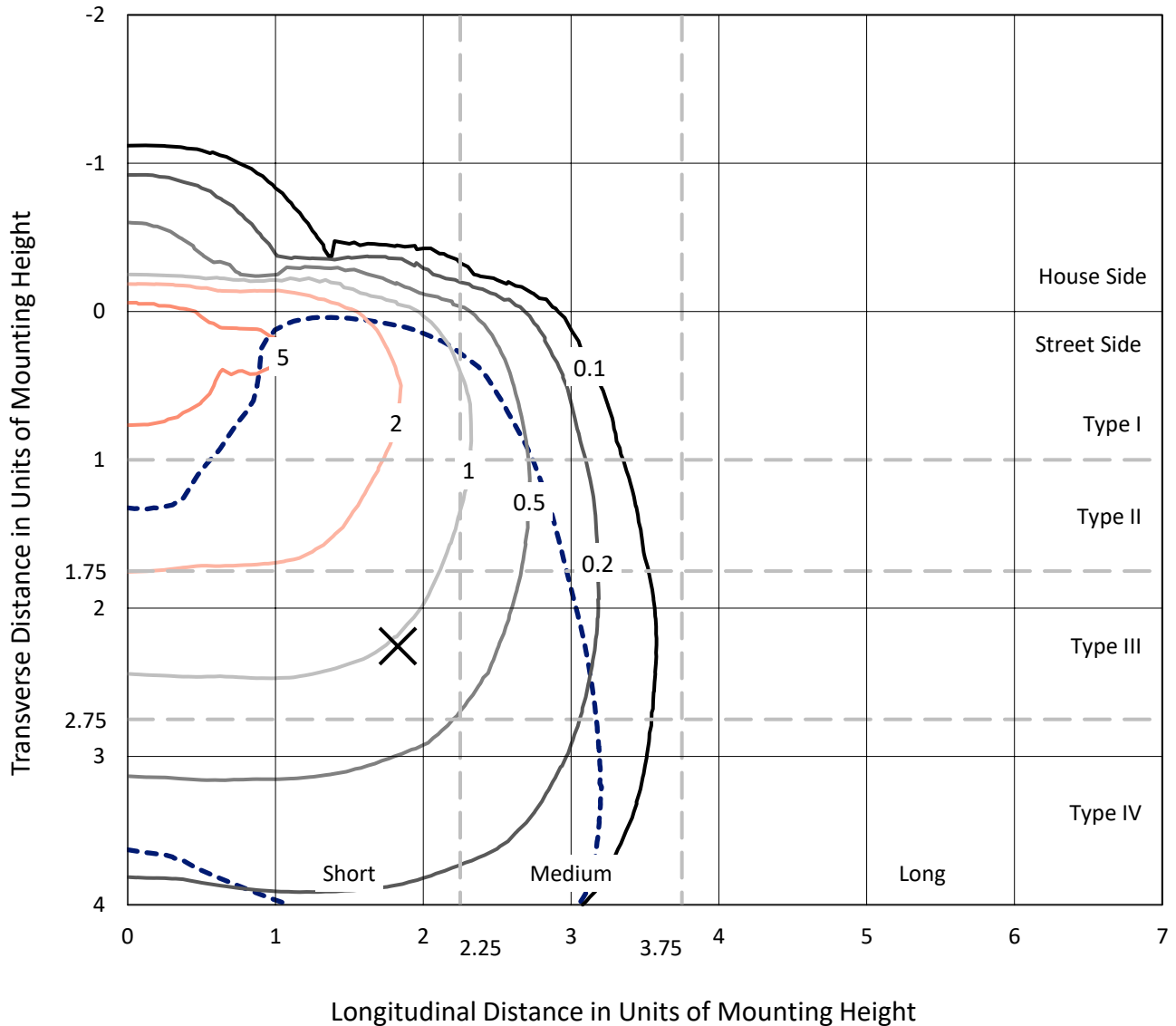
Lumens per Lamp: N/A
Luminaire Lumens: 24603.7 lumens
Efficiency: N/A
Efficacy: 87.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 281
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

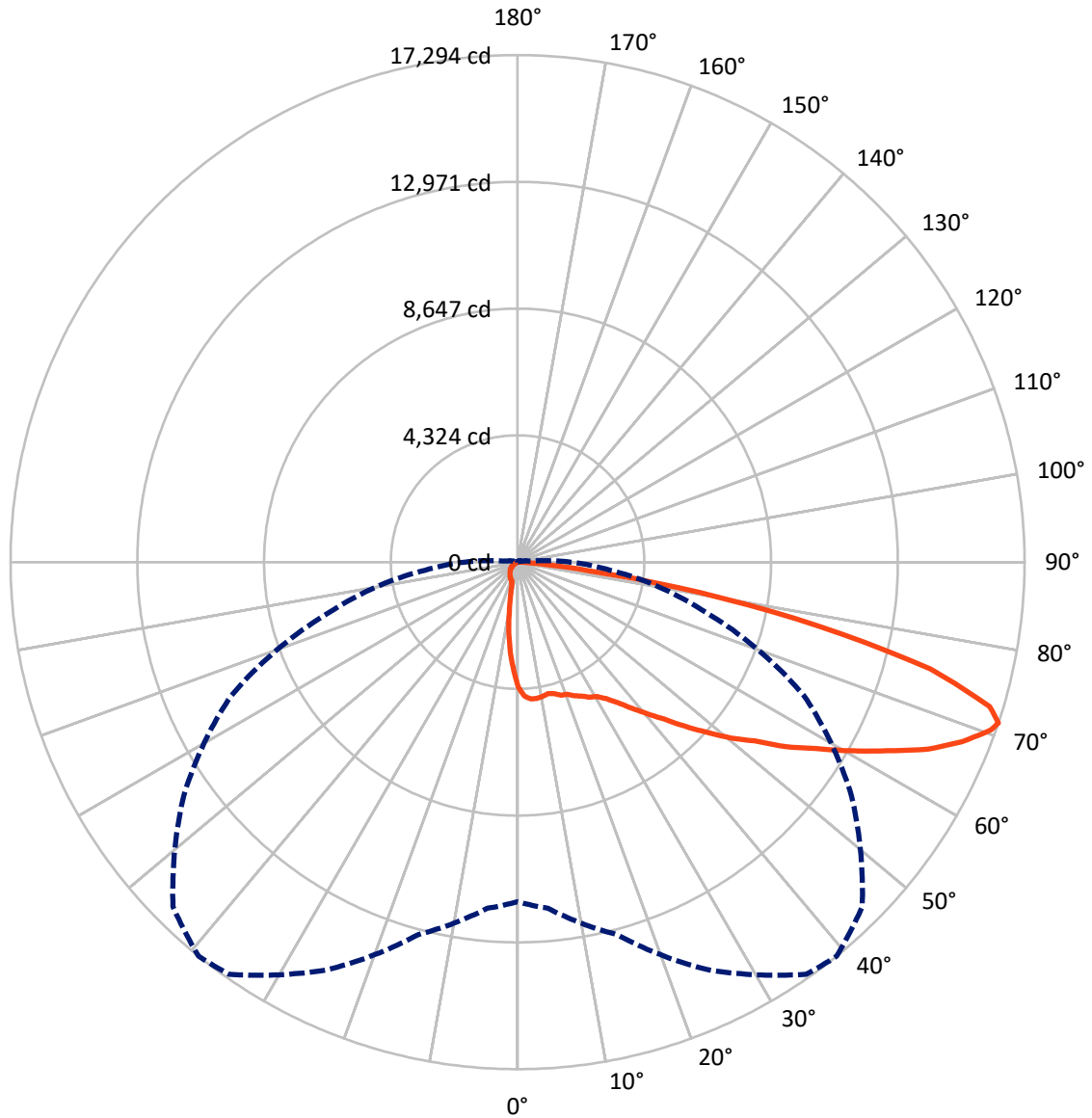
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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	1852.3	0.0	1852.3
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	22751.5	0.0	22751.5
	% Fixture	92.5	0.0	92.5
Total	Lumens	24603.7	0.0	24603.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	358.0	1.5
10°-20°	881.3	3.6
20°-30°	1414.7	5.8
30°-40°	2165.6	8.8
40°-50°	3476.2	14.1
50°-60°	5105.9	20.8
60°-70°	6430.7	26.1
70°-80°	4291.7	17.4
80°-90°	479.6	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°	24603.7	100.0
0°-180°	24603.7	100.0



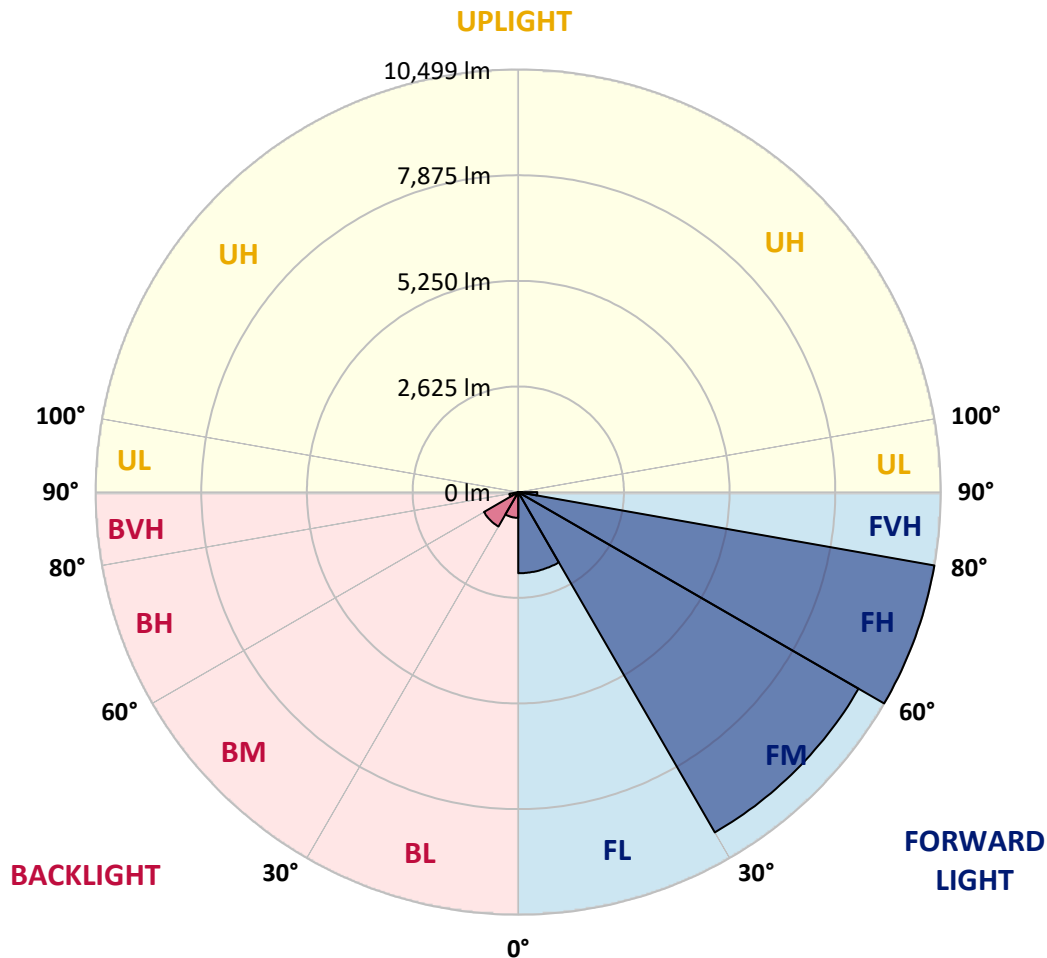
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2014.5	8.2			
FM (30°-60°)	9763.1	39.7			
FH (60°-80°)	10499.5	42.7			G4/12000
FVH (80°-90°)	474.3	1.9			G3/500
BL (0°-30°)	639.5	2.6	B2/1000		
BM (30°-60°)	984.6	4.0	B1/1000		
BH (60°-80°)	222.9	0.9	B1/500		G1/500
BVH (80°-90°)	5.3	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°	4282.4	4282.4	4282.4	4282.4	4282.4	4282.4	4282.4	4282.4	4282.4	4282.4	4282.4
2.5°	4614.8	4660.0	4614.8	4595.5	4576.1	4579.3	4527.7	4537.4	4476.1	4395.4	4330.8
5°	4760.1	4821.4	4773.0	4750.4	4747.1	4685.8	4660.0	4598.7	4524.5	4398.6	4321.2
7.5°	4747.1	4734.2	4756.8	4737.5	4695.5	4695.5	4666.5	4579.3	4505.1	4363.1	4230.8
10°	4650.3	4689.1	4669.7	4647.1	4656.8	4660.0	4605.2	4543.8	4521.2	4379.3	4163.0
12.5°	4640.7	4576.1	4647.1	4650.3	4608.4	4605.2	4598.7	4582.6	4511.6	4382.5	4179.2
15°	4608.4	4582.6	4653.6	4656.8	4666.5	4656.8	4666.5	4653.6	4582.6	4508.3	4250.2
17.5°	4634.2	4605.2	4705.2	4753.6	4731.0	4776.2	4760.1	4702.0	4640.7	4553.5	4317.9
20°	4640.7	4682.6	4792.3	4811.7	4882.7	4808.5	4805.2	4743.9	4705.2	4611.6	4359.9
22.5°	4760.1	4779.4	4915.0	4956.9	4960.1	4950.5	4869.8	4798.8	4782.6	4666.5	4369.6
25°	4940.8	5008.5	5069.9	5095.7	5105.4	5060.2	4976.3	4885.9	4847.2	4773.0	4469.6
27.5°	5260.3	5218.3	5273.2	5311.9	5202.2	5218.3	5111.8	5034.4	4979.5	4915.0	4585.8
30°	5544.3	5505.5	5508.8	5502.3	5408.7	5321.6	5292.5	5157.0	5089.2	5115.0	4766.5
32.5°	5799.2	5715.3	5786.3	5754.0	5579.8	5553.9	5531.3	5360.3	5373.2	5492.6	5037.6
35°	6034.8	6005.7	6063.8	6005.7	5889.6	5883.1	5860.5	5712.1	5783.1	5954.1	5502.3
37.5°	6251.0	6260.7	6331.7	6302.6	6312.3	6318.8	6305.9	6147.7	6351.0	6735.1	6044.5
40°	6451.1	6438.2	6612.4	6702.8	6722.2	6793.2	6793.2	6754.4	7067.5	7499.9	6796.4
42.5°	6664.1	6696.4	6922.3	7073.9	7257.9	7319.2	7403.1	7422.5	7906.5	8400.3	7564.5
45°	7012.6	6957.8	7245.0	7603.2	7764.5	7980.8	8109.8	8219.6	8803.7	9481.4	8332.5
47.5°	7454.7	7345.0	7596.7	8116.3	8490.7	8668.1	8900.5	9045.7	9616.9	10317.2	9058.6
50°	7945.3	7832.3	7954.9	8671.4	9107.0	9429.8	9726.7	9910.6	10601.2	11253.1	9587.9
52.5°	8500.3	8397.1	8416.4	9249.0	9891.2	10126.8	10517.3	10791.6	11479.0	11817.9	9775.1
55°	9090.9	9065.1	9003.8	9813.8	10578.6	11107.9	11343.5	11672.6	12379.4	12124.4	9978.4
57.5°	9684.7	9604.0	9691.2	10562.5	11682.3	11998.6	12324.5	12521.4	12879.6	12392.3	9900.9
60°	10243.0	10249.5	10372.1	11375.7	12621.4	13070.0	13363.7	13244.3	13392.7	12508.5	9723.4
62.5°	10714.2	10701.3	11011.1	12289.0	13863.9	14167.2	14386.7	13854.2	13631.5	12621.4	9413.6
65°	11136.9	11282.1	11769.4	13376.6	15032.1	15380.6	15248.3	14431.9	13863.9	12289.0	8542.3
67.5°	11456.4	11672.6	12518.1	14399.6	16103.5	16348.8	16164.8	14870.7	13589.6	10985.2	6957.8
70°	11643.6	11863.0	13053.9	15251.6	16958.7	17136.2	16703.8	14531.9	11988.9	7954.9	4340.5
71°	11585.5	11853.4	13157.1	15341.9	17162.0	17294.3	16623.1	13905.8	10781.9	6660.9	3165.8
72.5°	11059.5	11311.2	12727.9	15277.4	16916.8	16836.1	15993.8	12402.0	8487.4	4246.9	1636.2
75°	8126.0	8397.1	10923.9	13215.2	15099.9	14544.8	12944.1	8703.6	4427.7	1300.5	477.6
77.5°	4046.9	4092.0	6780.3	9594.3	11075.6	10523.8	8674.6	4853.6	1655.5	384.0	238.8
80°	1865.3	1878.2	2543.0	4969.8	6696.4	6302.6	4860.1	2394.6	748.7	203.3	187.2
82.5°	1271.5	1290.9	1532.9	2058.9	2907.7	2452.6	1968.6	1532.9	429.2	122.6	183.9
85°	232.4	213.0	858.4	1090.8	1123.1	761.6	680.9	1326.4	161.4	71.0	161.4
87.5°	0.0	3.2	119.4	445.3	400.2	177.5	232.4	322.7	16.1	22.6	29.0
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°	4282.4	4282.4	4282.4	4282.4	4282.4	4282.4	4282.4	4282.4	4282.4	4282.4	4282.4
2.5°	4276.0	4240.5	4121.1	3988.8	3869.4	3775.8	3656.4	3601.5	3514.4	3466.0	3462.7
5°	4214.7	4117.9	3911.3	3688.6	3440.2	3233.6	3004.5	2875.4	2726.9	2681.8	2672.1
7.5°	4111.4	3972.6	3669.3	3356.2	2975.4	2610.8	2330.0	2029.9	1845.9	1768.5	1739.4
10°	4046.9	3879.0	3466.0	2998.0	2465.5	1952.4	1558.7	1239.2	1071.4	990.7	971.4
12.5°	4046.9	3866.1	3301.4	2656.0	1949.2	1336.0	964.9	781.0	726.1	706.7	706.7
15°	4037.2	3840.3	3143.3	2304.2	1442.5	897.2	719.7	680.9	674.5	671.2	668.0
17.5°	4085.6	3795.1	2981.9	1926.6	1019.8	706.7	661.6	655.1	648.7	648.7	642.2
20°	4121.1	3769.3	2788.3	1526.4	761.6	655.1	635.8	626.1	622.8	619.6	626.1
22.5°	4092.0	3730.6	2549.5	1142.4	664.8	622.8	609.9	600.3	593.8	593.8	597.0
25°	4146.9	3695.1	2310.6	861.7	622.8	593.8	580.9	574.4	571.2	568.0	561.5
27.5°	4221.1	3711.2	2026.7	693.8	587.3	564.8	551.8	545.4	542.2	535.7	542.2
30°	4311.5	3708.0	1713.6	606.7	555.1	532.5	519.6	516.3	509.9	506.7	509.9
32.5°	4466.4	3791.9	1390.9	561.5	519.6	500.2	487.3	484.1	480.8	477.6	474.4
35°	4798.8	3895.2	1087.6	526.0	487.3	464.7	455.0	448.6	445.3	442.1	438.9
37.5°	5208.6	4124.3	829.4	493.8	455.0	432.4	422.8	419.5	406.6	403.4	400.2
40°	5721.8	4369.6	639.0	458.3	426.0	403.4	393.7	384.0	367.9	361.4	355.0
42.5°	6360.7	4608.4	526.0	426.0	393.7	377.6	361.4	345.3	332.4	319.5	313.0
45°	6999.7	4885.9	461.5	396.9	367.9	348.5	335.6	313.0	290.4	271.1	267.9
47.5°	7532.2	4986.0	422.8	364.7	342.1	325.9	306.6	277.5	245.3	225.9	222.7
50°	7929.1	4927.9	384.0	332.4	313.0	296.9	271.1	235.6	203.3	183.9	177.5
52.5°	8006.6	4672.9	348.5	306.6	284.0	264.6	235.6	196.9	161.4	142.0	138.8
55°	7951.7	4250.2	319.5	284.0	258.2	229.1	196.9	158.1	125.9	106.5	103.3
57.5°	7838.8	3750.0	287.2	254.9	225.9	196.9	161.4	129.1	93.6	74.2	74.2
60°	7454.7	3069.0	254.9	222.7	193.6	167.8	132.3	93.6	64.5	48.4	45.2
62.5°	6919.0	2359.1	222.7	190.4	167.8	138.8	103.3	67.8	38.7	25.8	25.8
65°	5941.2	1652.3	187.2	158.1	138.8	113.0	77.5	42.0	22.6	9.7	9.7
67.5°	4514.8	1023.0	154.9	132.3	119.4	90.4	54.9	25.8	9.7	3.2	0.0
70°	2591.4	532.5	122.6	106.5	93.6	67.8	38.7	12.9	6.5	0.0	0.0
71°	1810.4	393.7	109.7	93.6	83.9	61.3	32.3	9.7	3.2	0.0	0.0
72.5°	906.8	261.4	93.6	77.5	67.8	48.4	25.8	9.7	3.2	0.0	0.0
75°	322.7	167.8	64.5	51.6	48.4	35.5	16.1	6.5	3.2	0.0	0.0
77.5°	222.7	135.5	45.2	32.3	32.3	22.6	9.7	3.2	3.2	0.0	0.0
80°	203.3	74.2	29.0	19.4	16.1	12.9	6.5	3.2	0.0	0.0	0.0
82.5°	203.3	54.9	16.1	12.9	9.7	6.5	3.2	0.0	0.0	0.0	0.0
85°	142.0	29.0	9.7	9.7	6.5	3.2	0.0	0.0	0.0	0.0	0.0
87.5°	22.6	9.7	6.5	3.2	3.2	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)