

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: P484930

Luminaire Tested: **IFLD-L-SA7C-827-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484930
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-827-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

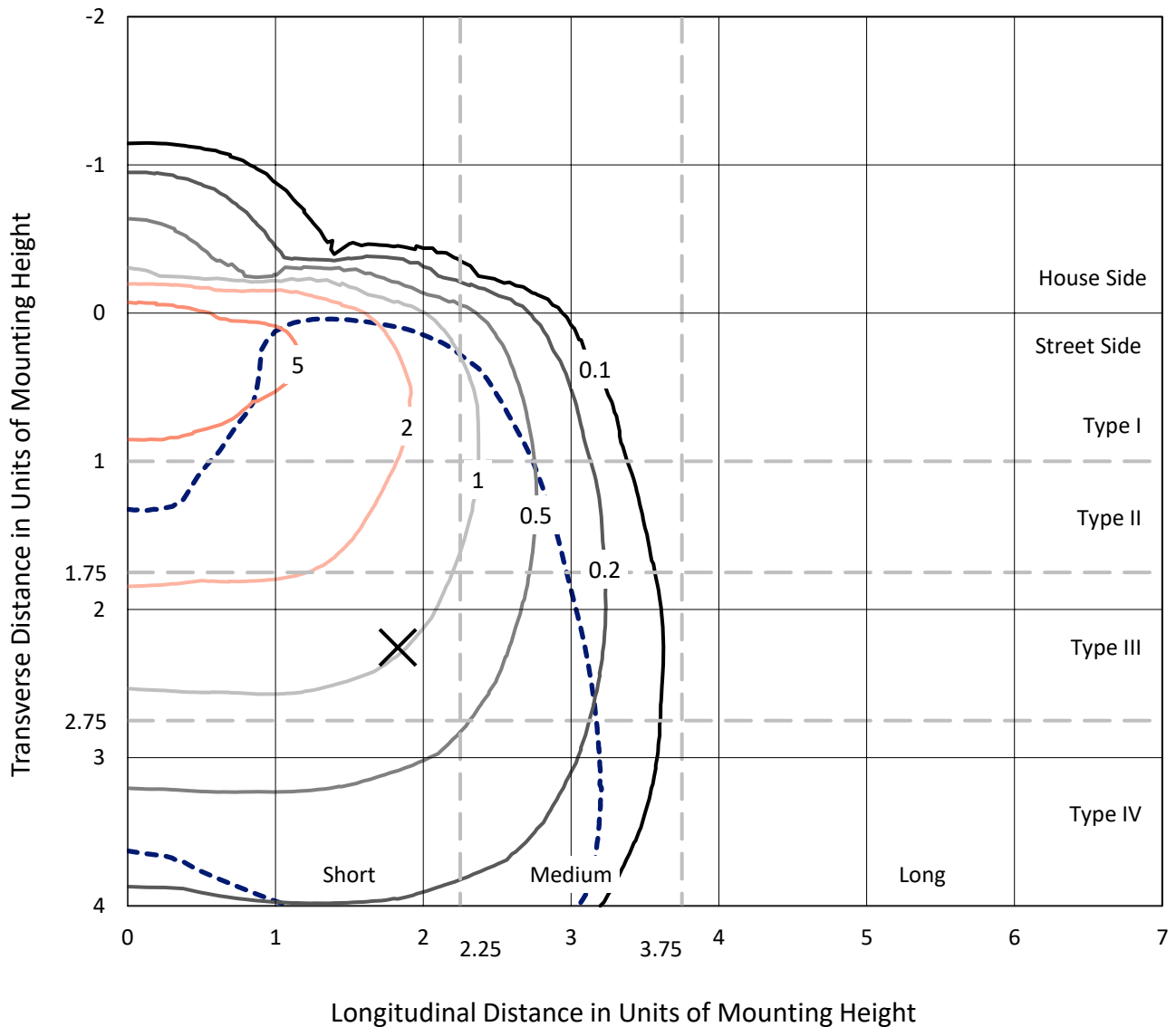
Lumens per Lamp: N/A
Luminaire Lumens: 26921.2 lumens
Efficiency: N/A
Efficacy: 73.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 369
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

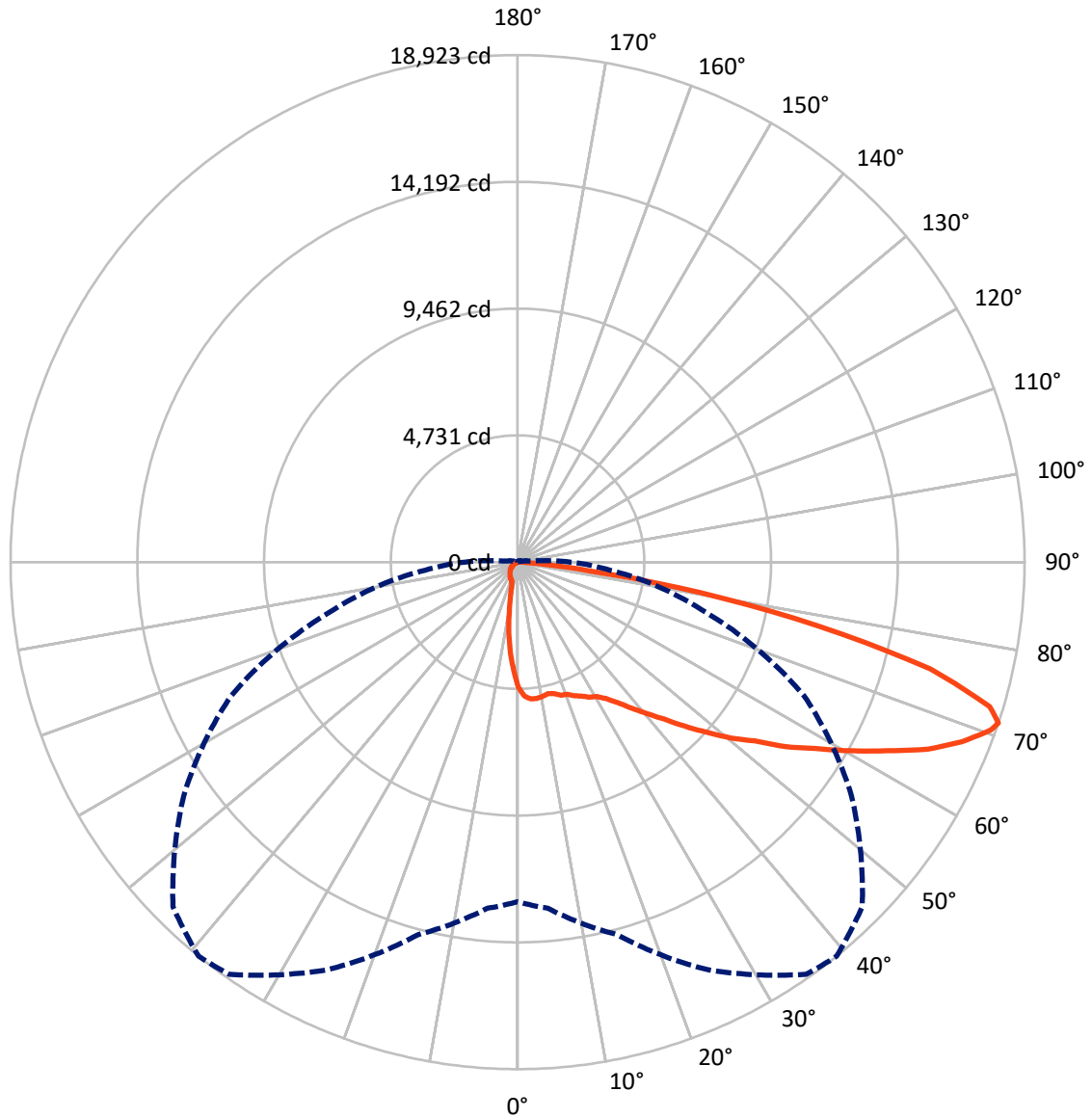
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 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	2026.7	0.0	2026.7
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	24894.5	0.0	24894.5
	% Fixture	92.5	0.0	92.5
Total	Lumens	26921.2	0.0	26921.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	391.8	1.5
10°-20°	964.3	3.6
20°-30°	1548.0	5.7
30°-40°	2369.6	8.8
40°-50°	3803.6	14.1
50°-60°	5586.9	20.8
60°-70°	7036.4	26.1
70°-80°	4695.9	17.4
80°-90°	524.8	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°	26921.2	100.0
0°-180°	26921.2	100.0

Coefficient of Utilization



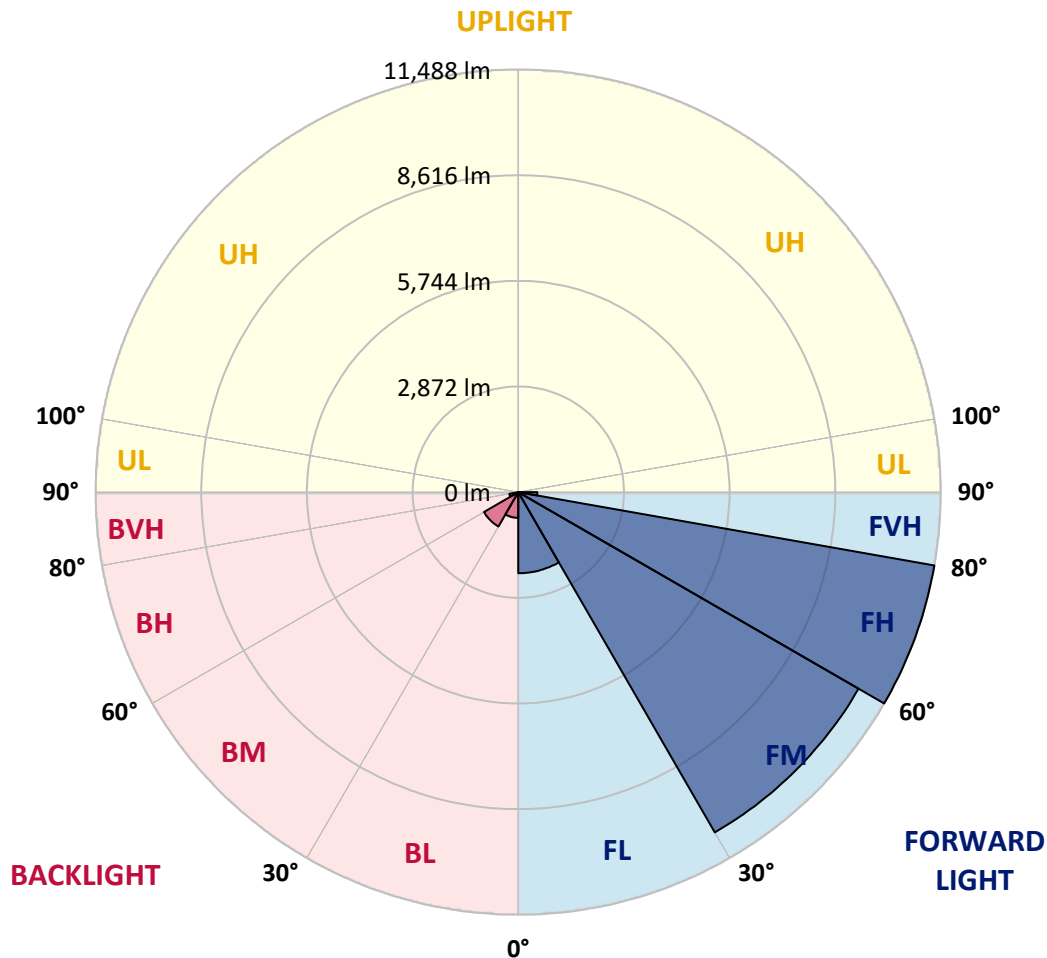
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2204.3	8.2			
FM (30°-60°)	10682.7	39.7			
FH (60°-80°)	11488.4	42.7			G4/12000
FVH (80°-90°)	519.0	1.9			G4/750
BL (0°-30°)	699.7	2.6	B2/1000		
BM (30°-60°)	1077.3	4.0	B2/2500		
BH (60°-80°)	243.9	0.9	B1/500		G1/500
BVH (80°-90°)	5.8	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°	4685.8	4685.8	4685.8	4685.8	4685.8	4685.8	4685.8	4685.8	4685.8	4685.8	4685.8
2.5°	5049.5	5098.9	5049.5	5028.3	5007.1	5010.7	4954.2	4964.8	4897.7	4809.4	4738.8
5°	5208.4	5275.5	5222.5	5197.8	5194.3	5127.2	5098.9	5031.9	4950.6	4812.9	4728.2
7.5°	5194.3	5180.2	5204.9	5183.7	5137.8	5137.8	5106.0	5010.7	4929.5	4774.1	4629.3
10°	5088.4	5130.7	5109.5	5084.8	5095.4	5098.9	5038.9	4971.8	4947.1	4791.7	4555.2
12.5°	5077.8	5007.1	5084.8	5088.4	5042.4	5038.9	5031.9	5014.2	4936.5	4795.3	4572.8
15°	5042.4	5014.2	5091.9	5095.4	5106.0	5095.4	5106.0	5091.9	5014.2	4933.0	4650.5
17.5°	5070.7	5038.9	5148.4	5201.4	5176.6	5226.1	5208.4	5144.9	5077.8	4982.4	4724.6
20°	5077.8	5123.7	5243.7	5264.9	5342.6	5261.4	5257.8	5190.8	5148.4	5046.0	4770.6
22.5°	5208.4	5229.6	5377.9	5423.8	5427.3	5416.7	5328.5	5250.8	5233.1	5106.0	4781.1
25°	5406.2	5480.3	5547.4	5575.6	5586.2	5536.8	5445.0	5346.1	5303.8	5222.5	4890.6
27.5°	5755.7	5709.8	5769.9	5812.2	5692.2	5709.8	5593.3	5508.6	5448.5	5377.9	5017.7
30°	6066.5	6024.1	6027.6	6020.6	5918.2	5822.8	5791.0	5642.7	5568.6	5596.8	5215.5
32.5°	6345.4	6253.6	6331.3	6296.0	6105.3	6077.1	6052.4	5865.2	5879.3	6010.0	5512.1
35°	6603.2	6571.4	6635.0	6571.4	6444.3	6437.2	6412.5	6250.1	6327.8	6514.9	6020.6
37.5°	6839.8	6850.4	6928.1	6896.3	6906.9	6913.9	6899.8	6726.8	6949.3	7369.5	6613.8
40°	7058.7	7044.6	7235.3	7334.2	7355.3	7433.0	7433.0	7390.6	7733.2	8206.3	7436.6
42.5°	7291.8	7327.1	7574.3	7740.2	7941.5	8008.6	8100.4	8121.6	8651.3	9191.5	8277.0
45°	7673.1	7613.1	7927.4	8319.3	8495.9	8732.5	8873.7	8993.8	9632.9	10374.5	9117.4
47.5°	8156.9	8036.8	8312.3	8880.8	9290.4	9484.6	9738.8	9897.7	10522.8	11289.0	9911.9
50°	8693.6	8570.0	8704.2	9488.1	9964.8	10318.0	10642.8	10844.1	11599.8	12313.0	10491.0
52.5°	9301.0	9188.0	9209.2	10120.2	10822.9	11080.7	11507.9	11808.1	12560.2	12931.0	10695.8
55°	9947.2	9918.9	9851.8	10738.2	11575.0	12154.1	12411.9	12772.1	13545.4	13266.4	10918.2
57.5°	10596.9	10508.6	10604.0	11557.4	12782.7	13128.7	13485.4	13700.8	14092.7	13559.5	10833.5
60°	11207.8	11214.9	11349.0	12447.2	13810.2	14301.1	14622.4	14491.7	14654.2	13686.6	10639.3
62.5°	11723.3	11709.2	12048.2	13446.5	15169.7	15501.6	15741.8	15159.1	14915.5	13810.2	10300.3
65°	12185.9	12344.8	12878.0	14636.5	16448.0	16829.4	16684.6	15791.2	15169.7	13446.5	9346.9
67.5°	12535.5	12772.1	13697.2	15755.9	17620.3	17888.7	17687.4	16271.4	14869.6	12020.0	7613.1
70°	12740.3	12980.4	14283.4	16688.1	18556.1	18750.3	18277.1	15900.7	13118.1	8704.2	4749.4
71°	12676.7	12969.8	14396.4	16787.0	18778.5	18923.3	18188.8	15215.6	11797.5	7288.2	3464.0
72.5°	12101.2	12376.6	13926.8	16716.4	18510.2	18421.9	17500.3	13570.1	9286.9	4647.0	1790.3
75°	8891.4	9188.0	11952.9	14460.0	16522.1	15914.8	14163.4	9523.5	4844.7	1423.0	522.6
77.5°	4428.0	4477.5	7418.9	10498.0	12118.8	11515.0	9491.7	5310.8	1811.5	420.2	261.3
80°	2041.0	2055.1	2782.5	5437.9	7327.1	6896.3	5317.9	2620.1	819.2	222.5	204.8
82.5°	1391.3	1412.5	1677.3	2252.9	3181.5	2683.7	2154.0	1677.3	469.6	134.2	201.3
85°	254.2	233.1	939.3	1193.5	1228.8	833.3	745.1	1451.3	176.6	77.7	176.6
87.5°	0.0	3.5	130.7	487.3	437.9	194.2	254.2	353.1	17.7	24.7	31.8
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°	4685.8	4685.8	4685.8	4685.8	4685.8	4685.8	4685.8	4685.8	4685.8	4685.8	4685.8
2.5°	4678.7	4639.9	4509.2	4364.5	4233.8	4131.4	4000.8	3940.7	3845.4	3792.4	3788.9
5°	4611.7	4505.7	4279.7	4036.1	3764.2	3538.2	3287.5	3146.2	2983.8	2934.4	2923.8
7.5°	4498.7	4346.8	4014.9	3672.4	3255.7	2856.7	2549.5	2221.1	2019.8	1935.1	1903.3
10°	4428.0	4244.4	3792.4	3280.4	2697.8	2136.3	1705.5	1356.0	1172.3	1084.1	1062.9
12.5°	4428.0	4230.3	3612.3	2906.1	2132.8	1461.9	1055.8	854.5	794.5	773.3	773.3
15°	4417.4	4202.0	3439.3	2521.2	1578.4	981.7	787.4	745.1	738.0	734.5	730.9
17.5°	4470.4	4152.6	3262.8	2108.1	1115.8	773.3	723.9	716.8	709.8	709.8	702.7
20°	4509.2	4124.4	3050.9	1670.2	833.3	716.8	695.6	685.0	681.5	678.0	685.0
22.5°	4477.5	4082.0	2789.6	1250.0	727.4	681.5	667.4	656.8	649.7	649.7	653.3
25°	4537.5	4043.1	2528.3	942.8	681.5	649.7	635.6	628.5	625.0	621.5	614.4
27.5°	4618.7	4060.8	2217.5	759.2	642.7	617.9	603.8	596.8	593.2	586.2	593.2
30°	4717.6	4057.3	1875.0	663.9	607.4	582.6	568.5	565.0	557.9	554.4	557.9
32.5°	4887.1	4149.1	1521.9	614.4	568.5	547.3	533.2	529.7	526.1	522.6	519.1
35°	5250.8	4262.1	1190.0	575.6	533.2	508.5	497.9	490.8	487.3	483.8	480.2
37.5°	5699.2	4512.8	907.5	540.3	497.9	473.2	462.6	459.0	444.9	441.4	437.9
40°	6260.7	4781.1	699.2	501.4	466.1	441.4	430.8	420.2	402.5	395.5	388.4
42.5°	6959.9	5042.4	575.6	466.1	430.8	413.1	395.5	377.8	363.7	349.6	342.5
45°	7659.0	5346.1	505.0	434.3	402.5	381.4	367.2	342.5	317.8	296.6	293.1
47.5°	8241.7	5455.6	462.6	399.0	374.3	356.6	335.5	303.7	268.4	247.2	243.6
50°	8676.0	5392.0	420.2	363.7	342.5	324.9	296.6	257.8	222.5	201.3	194.2
52.5°	8760.7	5113.1	381.4	335.5	310.7	289.6	257.8	215.4	176.6	155.4	151.8
55°	8700.7	4650.5	349.6	310.7	282.5	250.7	215.4	173.0	137.7	116.5	113.0
57.5°	8577.1	4103.2	314.3	279.0	247.2	215.4	176.6	141.2	102.4	81.2	81.2
60°	8156.9	3358.1	279.0	243.6	211.9	183.6	144.8	102.4	70.6	53.0	49.4
62.5°	7570.7	2581.3	243.6	208.3	183.6	151.8	113.0	74.2	42.4	28.2	28.2
65°	6500.8	1807.9	204.8	173.0	151.8	123.6	84.7	45.9	24.7	10.6	10.6
67.5°	4940.0	1119.4	169.5	144.8	130.7	98.9	60.0	28.2	10.6	3.5	0.0
70°	2835.5	582.6	134.2	116.5	102.4	74.2	42.4	14.1	7.1	0.0	0.0
71°	1981.0	430.8	120.1	102.4	91.8	67.1	35.3	10.6	3.5	0.0	0.0
72.5°	992.2	286.0	102.4	84.7	74.2	53.0	28.2	10.6	3.5	0.0	0.0
75°	353.1	183.6	70.6	56.5	53.0	38.8	17.7	7.1	3.5	0.0	0.0
77.5°	243.6	148.3	49.4	35.3	35.3	24.7	10.6	3.5	3.5	0.0	0.0
80°	222.5	81.2	31.8	21.2	17.7	14.1	7.1	3.5	0.0	0.0	0.0
82.5°	222.5	60.0	17.7	14.1	10.6	7.1	3.5	0.0	0.0	0.0	0.0
85°	155.4	31.8	10.6	10.6	7.1	3.5	0.0	0.0	0.0	0.0	0.0
87.5°	24.7	10.6	7.1	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)