

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: P484723

Luminaire Tested: **IFLD-S-SA6A-730-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484723
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-730-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (96) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

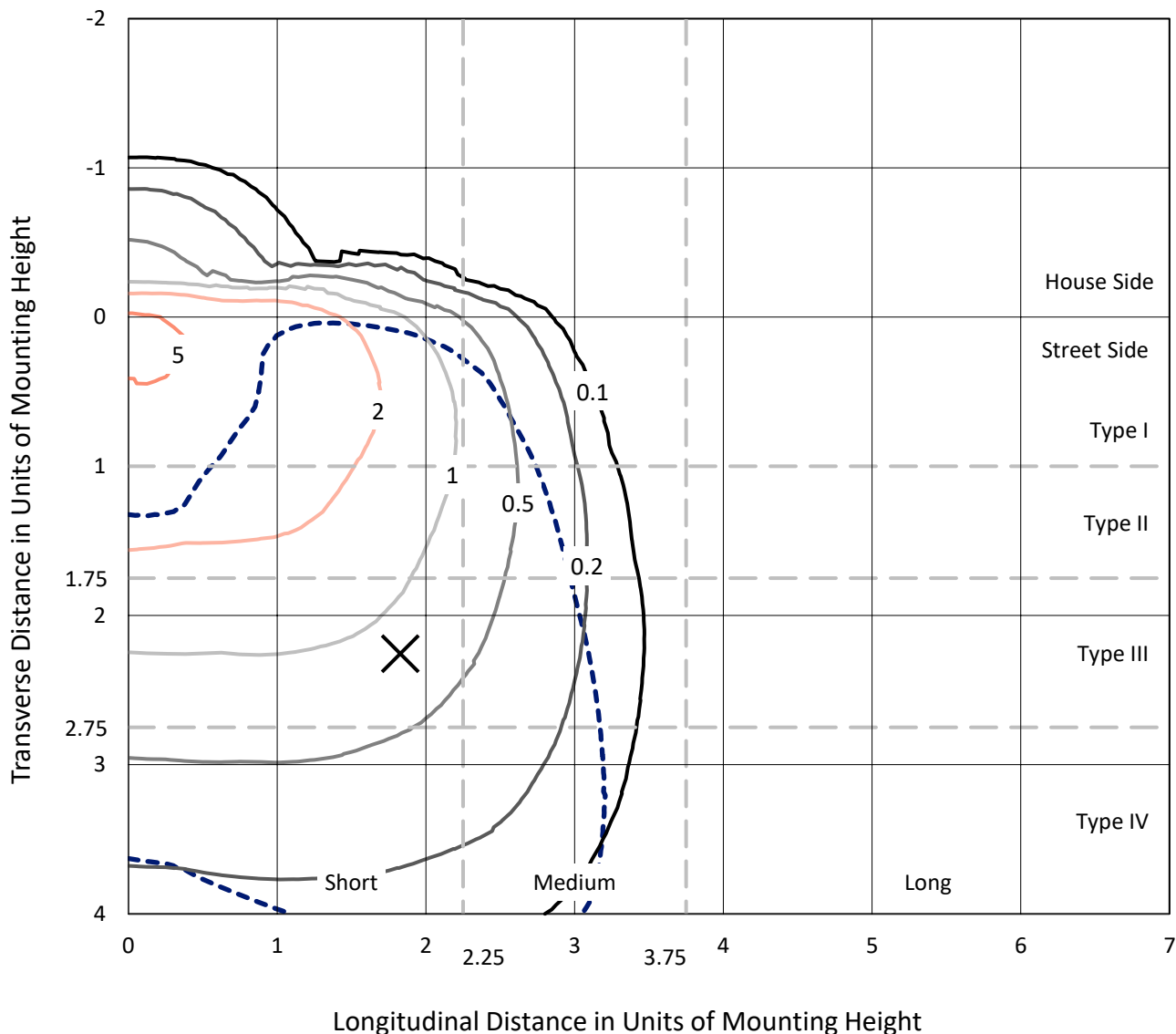
Lumens per Lamp: N/A
Luminaire Lumens: 20303.5 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 189.6
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

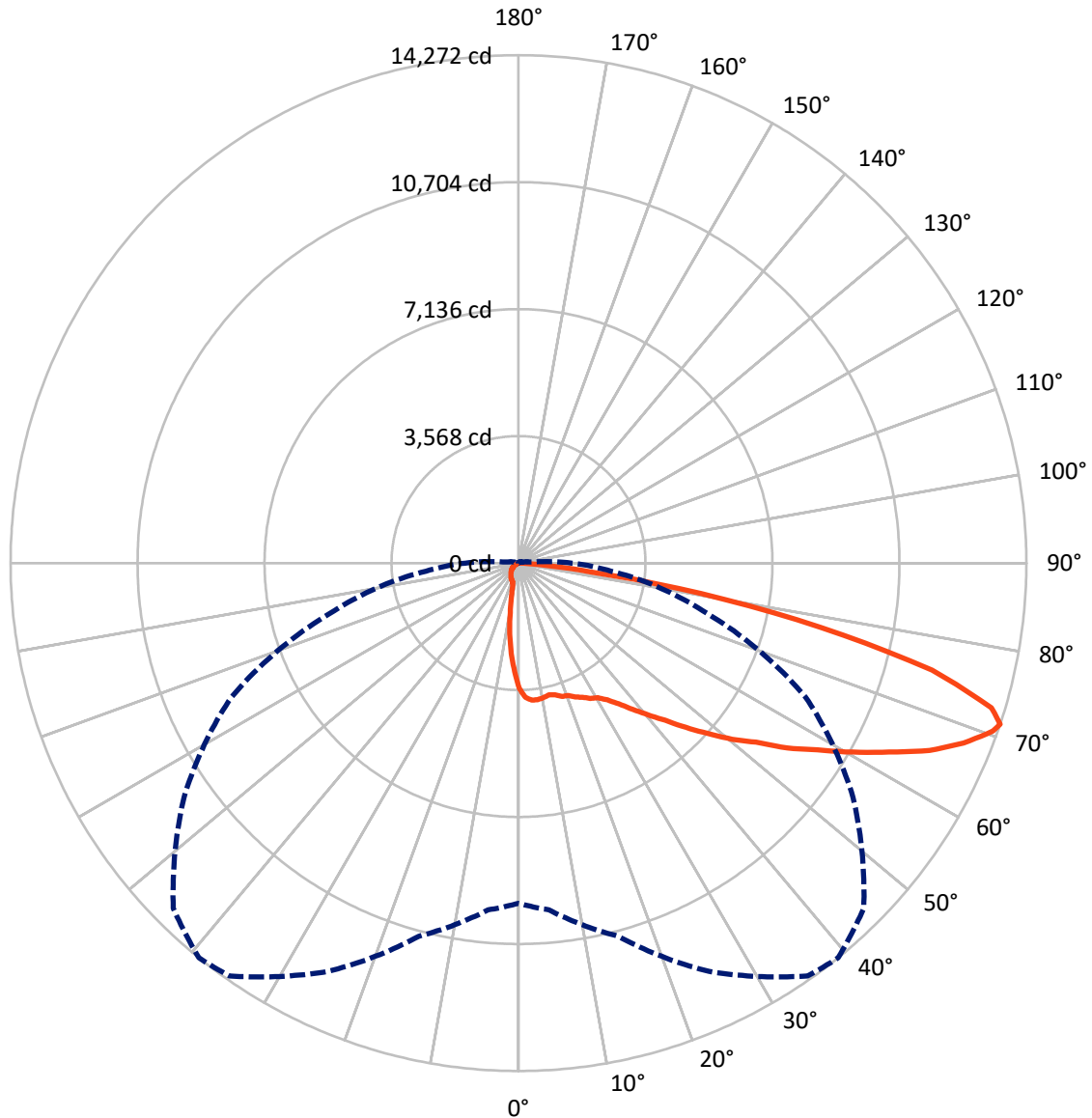
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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	1528.5	0.0	1528.5
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	18775.0	0.0	18775.0
	% Fixture	92.5	0.0	92.5
Total	Lumens	20303.5	0.0	20303.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.5	1.5
10°-20°	727.2	3.6
20°-30°	1167.5	5.8
30°-40°	1787.1	8.8
40°-50°	2868.6	14.1
50°-60°	4213.5	20.8
60°-70°	5306.8	26.1
70°-80°	3541.6	17.4
80°-90°	395.8	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°	20303.5	100.0
0°-180°	20303.5	100.0

Coefficient of Utilization



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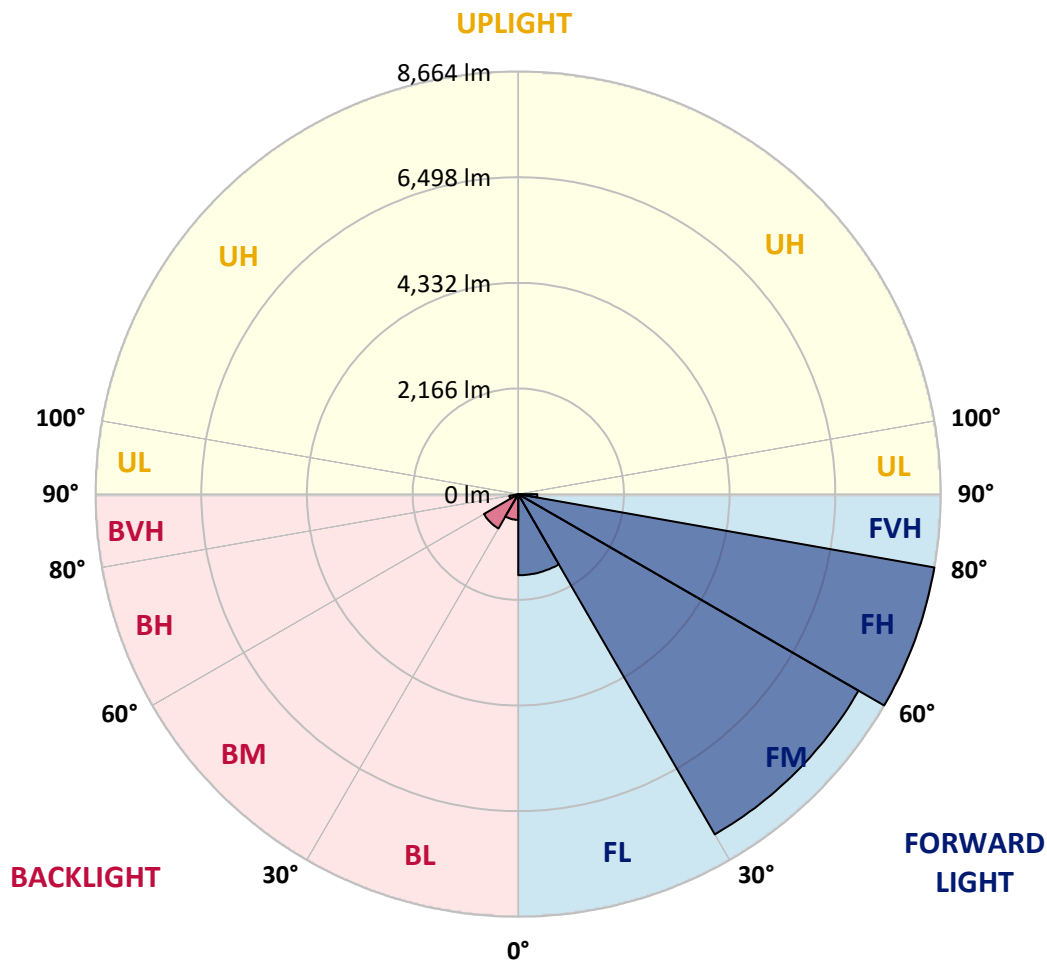
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1662.4	8.2			
FM (30°-60°)	8056.7	39.7			
FH (60°-80°)	8664.4	42.7			G4/12000
FVH (80°-90°)	391.4	1.9			G3/500
BL (0°-30°)	527.7	2.6	B2/1000		
BM (30°-60°)	812.5	4.0	B1/1000		
BH (60°-80°)	184.0	0.9	B1/500		G1/500
BVH (80°-90°)	4.4	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°	3534.0	3534.0	3534.0	3534.0	3534.0	3534.0	3534.0	3534.0	3534.0	3534.0	3534.0
2.5°	3808.3	3845.5	3808.3	3792.3	3776.3	3779.0	3736.4	3744.3	3693.7	3627.2	3573.9
5°	3928.1	3978.7	3938.8	3920.1	3917.4	3866.8	3845.5	3794.9	3733.7	3629.8	3565.9
7.5°	3917.4	3906.8	3925.4	3909.5	3874.8	3874.8	3850.9	3779.0	3717.7	3600.5	3491.3
10°	3837.6	3869.5	3853.5	3834.9	3842.9	3845.5	3800.3	3749.7	3731.0	3613.9	3435.4
12.5°	3829.6	3776.3	3834.9	3837.6	3802.9	3800.3	3794.9	3781.6	3723.0	3616.5	3448.7
15°	3802.9	3781.6	3840.2	3842.9	3850.9	3842.9	3850.9	3840.2	3781.6	3720.4	3507.3
17.5°	3824.2	3800.3	3882.8	3922.8	3904.1	3941.4	3928.1	3880.2	3829.6	3757.7	3563.3
20°	3829.6	3864.2	3954.7	3970.7	4029.3	3968.0	3965.4	3914.8	3882.8	3805.6	3597.9
22.5°	3928.1	3944.1	4055.9	4090.5	4093.2	4085.2	4018.6	3960.1	3946.7	3850.9	3605.9
25°	4077.2	4133.2	4183.8	4205.1	4213.1	4175.8	4106.5	4032.0	4000.0	3938.8	3688.4
27.5°	4340.9	4306.3	4351.5	4383.5	4292.9	4306.3	4218.4	4154.5	4109.2	4055.9	3784.3
30°	4575.2	4543.3	4545.9	4540.6	4463.4	4391.5	4367.5	4255.7	4199.7	4221.0	3933.4
32.5°	4785.6	4716.4	4775.0	4748.3	4604.5	4583.2	4564.6	4423.4	4434.1	4532.6	4157.1
35°	4980.0	4956.1	5004.0	4956.1	4860.2	4854.9	4836.2	4713.7	4772.3	4913.5	4540.6
37.5°	5158.5	5166.4	5225.0	5201.1	5209.1	5214.4	5203.7	5073.2	5241.0	5557.9	4988.0
40°	5323.6	5312.9	5456.7	5531.3	5547.3	5605.9	5605.9	5573.9	5832.2	6189.1	5608.5
42.5°	5499.3	5526.0	5712.4	5837.6	5989.4	6040.0	6109.2	6125.2	6524.6	6932.1	6242.3
45°	5787.0	5741.7	5978.7	6274.3	6407.5	6585.9	6692.4	6783.0	7265.0	7824.2	6876.2
47.5°	6151.8	6061.3	6269.0	6697.7	7006.7	7153.1	7344.9	7464.7	7936.1	8514.0	7475.4
50°	6556.6	6463.4	6564.6	7155.8	7515.3	7781.6	8026.6	8178.4	8748.3	9286.3	7912.1
52.5°	7014.7	6929.4	6945.4	7632.5	8162.5	8356.9	8679.1	8905.5	9472.7	9752.3	8066.6
55°	7502.0	7480.7	7430.1	8098.5	8729.7	9166.5	9360.9	9632.5	10215.7	10005.3	8234.4
57.5°	7992.0	7925.4	7997.3	8716.4	9640.5	9901.5	10170.4	10332.9	10628.5	10226.4	8170.4
60°	8452.7	8458.1	8559.3	9387.5	10415.5	10785.6	11028.0	10929.4	11051.9	10322.2	8024.0
62.5°	8841.6	8830.9	9086.6	10141.2	11440.8	11691.1	11872.2	11432.8	11249.0	10415.5	7768.3
65°	9190.4	9310.3	9712.4	11038.6	12404.8	12692.4	12583.2	11909.5	11440.8	10141.2	7049.3
67.5°	9454.1	9632.5	10330.2	11882.8	13289.0	13491.4	13339.6	12271.6	11214.4	9065.3	5741.7
70°	9608.5	9789.6	10772.3	12585.9	13994.7	14141.2	13784.3	11992.0	9893.5	6564.6	3581.9
71°	9560.6	9781.6	10857.5	12660.5	14162.5	14271.6	13717.7	11475.4	8897.5	5496.7	2612.5
72.5°	9126.5	9334.2	10503.3	12607.2	13960.1	13893.5	13198.4	10234.4	7004.0	3504.7	1350.2
75°	6705.7	6929.4	9014.7	10905.5	12460.7	12002.7	10681.8	7182.4	3653.8	1073.2	394.1
77.5°	3339.5	3376.8	5595.2	7917.4	9139.8	8684.4	7158.5	4005.3	1366.2	316.9	197.1
80°	1539.3	1549.9	2098.5	4101.2	5526.0	5201.1	4010.7	1976.0	617.8	167.8	154.5
82.5°	1049.3	1065.2	1265.0	1699.1	2399.5	2024.0	1624.5	1265.0	354.2	101.2	151.8
85°	191.7	175.8	708.4	900.1	926.8	628.5	561.9	1094.5	133.2	58.6	133.2
87.5°	0.0	2.7	98.5	367.5	330.2	146.5	191.7	266.3	13.3	18.6	24.0
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°	3534.0	3534.0	3534.0	3534.0	3534.0	3534.0	3534.0	3534.0	3534.0	3534.0	3534.0
2.5°	3528.6	3499.3	3400.8	3291.6	3193.1	3115.8	3017.3	2972.0	2900.1	2860.2	2857.5
5°	3478.0	3398.1	3227.7	3043.9	2838.9	2668.4	2479.4	2372.8	2250.3	2213.1	2205.1
7.5°	3392.8	3278.3	3028.0	2769.6	2455.4	2154.5	1922.8	1675.1	1523.3	1459.4	1435.4
10°	3339.5	3201.1	2860.2	2474.0	2034.6	1611.2	1286.3	1022.6	884.2	817.6	801.6
12.5°	3339.5	3190.4	2724.4	2191.7	1608.5	1102.5	796.3	644.5	599.2	583.2	583.2
15°	3331.6	3169.1	2593.9	1901.5	1190.4	740.3	593.9	561.9	556.6	553.9	551.3
17.5°	3371.5	3131.8	2460.7	1589.9	841.5	583.2	545.9	540.6	535.3	535.3	530.0
20°	3400.8	3110.5	2300.9	1259.7	628.5	540.6	524.6	516.6	514.0	511.3	516.6
22.5°	3376.8	3078.6	2103.9	942.7	548.6	514.0	503.3	495.3	490.0	490.0	492.7
25°	3422.1	3049.3	1906.8	711.1	514.0	490.0	479.4	474.0	471.4	468.7	463.4
27.5°	3483.4	3062.6	1672.4	572.6	484.7	466.0	455.4	450.1	447.4	442.1	447.4
30°	3557.9	3059.9	1414.1	500.7	458.1	439.4	428.8	426.1	420.8	418.1	420.8
32.5°	3685.8	3129.2	1147.8	463.4	428.8	412.8	402.1	399.5	396.8	394.1	391.5
35°	3960.1	3214.4	897.5	434.1	402.1	383.5	375.5	370.2	367.5	364.8	362.2
37.5°	4298.3	3403.5	684.4	407.5	375.5	356.9	348.9	346.2	335.6	332.9	330.2
40°	4721.7	3605.9	527.3	378.2	351.5	332.9	324.9	316.9	303.6	298.3	292.9
42.5°	5249.0	3802.9	434.1	351.5	324.9	311.6	298.3	285.0	274.3	263.6	258.3
45°	5776.3	4032.0	380.8	327.6	303.6	287.6	277.0	258.3	239.7	223.7	221.0
47.5°	6215.7	4114.5	348.9	300.9	282.3	269.0	253.0	229.0	202.4	186.4	183.8
50°	6543.3	4066.6	316.9	274.3	258.3	245.0	223.7	194.4	167.8	151.8	146.5
52.5°	6607.2	3856.2	287.6	253.0	234.4	218.4	194.4	162.5	133.2	117.2	114.5
55°	6561.9	3507.3	263.6	234.4	213.0	189.1	162.5	130.5	103.9	87.9	85.2
57.5°	6468.7	3094.5	237.0	210.4	186.4	162.5	133.2	106.5	77.2	61.3	61.3
60°	6151.8	2532.6	210.4	183.8	159.8	138.5	109.2	77.2	53.3	39.9	37.3
62.5°	5709.7	1946.7	183.8	157.1	138.5	114.5	85.2	55.9	32.0	21.3	21.3
65°	4902.8	1363.5	154.5	130.5	114.5	93.2	63.9	34.6	18.6	8.0	8.0
67.5°	3725.7	844.2	127.8	109.2	98.5	74.6	45.3	21.3	8.0	2.7	0.0
70°	2138.5	439.4	101.2	87.9	77.2	55.9	32.0	10.7	5.3	0.0	0.0
71°	1494.0	324.9	90.5	77.2	69.2	50.6	26.6	8.0	2.7	0.0	0.0
72.5°	748.3	215.7	77.2	63.9	55.9	39.9	21.3	8.0	2.7	0.0	0.0
75°	266.3	138.5	53.3	42.6	39.9	29.3	13.3	5.3	2.7	0.0	0.0
77.5°	183.8	111.9	37.3	26.6	26.6	18.6	8.0	2.7	2.7	0.0	0.0
80°	167.8	61.3	24.0	16.0	13.3	10.7	5.3	2.7	0.0	0.0	0.0
82.5°	167.8	45.3	13.3	10.7	8.0	5.3	2.7	0.0	0.0	0.0	0.0
85°	117.2	24.0	8.0	8.0	5.3	2.7	0.0	0.0	0.0	0.0	0.0
87.5°	18.6	8.0	5.3	2.7	2.7	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)