

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: P484047

Luminaire Tested: **IFLD-S-SA3C-750-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484047
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-750-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (48) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

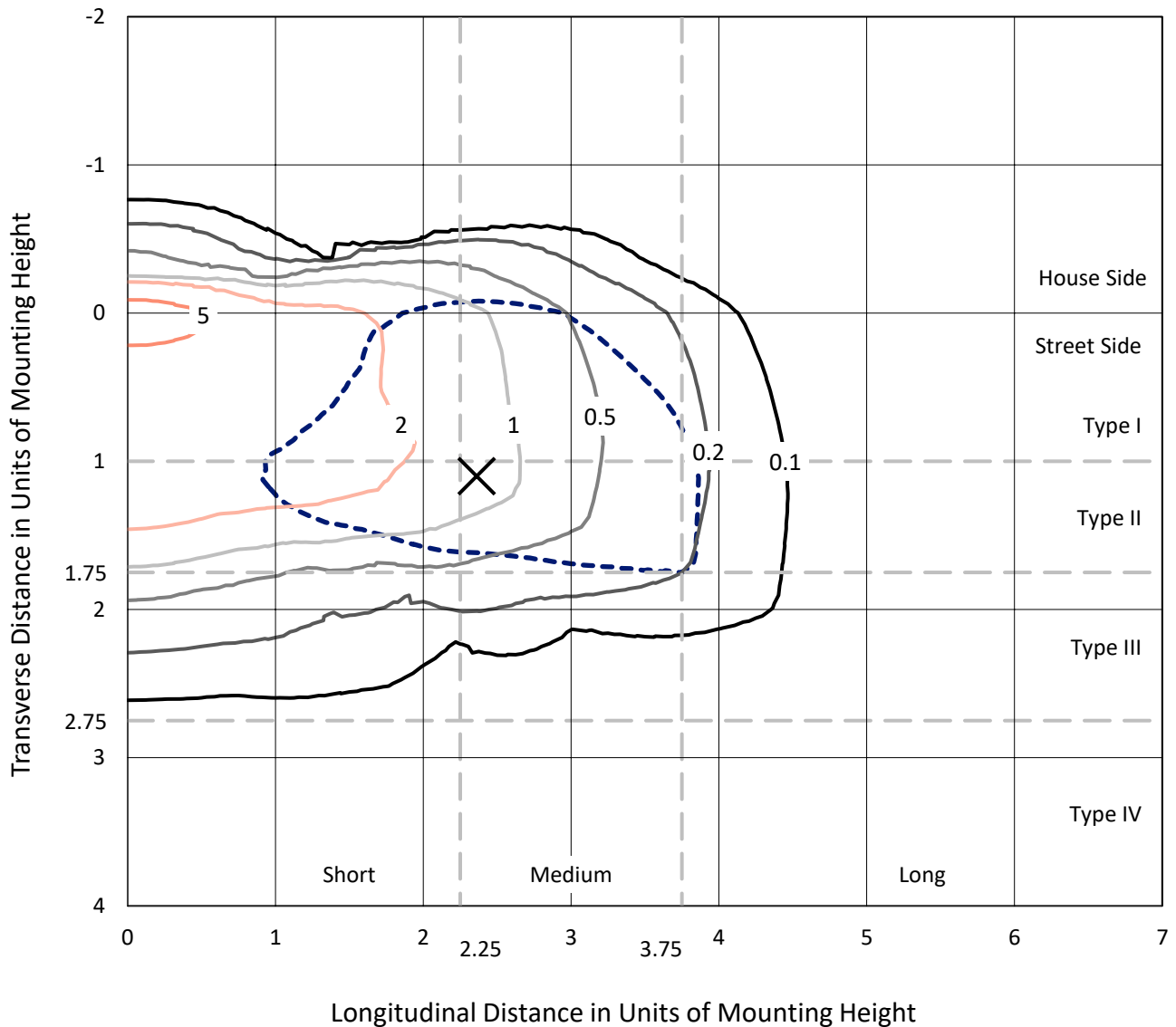
Lumens per Lamp: N/A
Luminaire Lumens: 17833.1 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 160.8
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

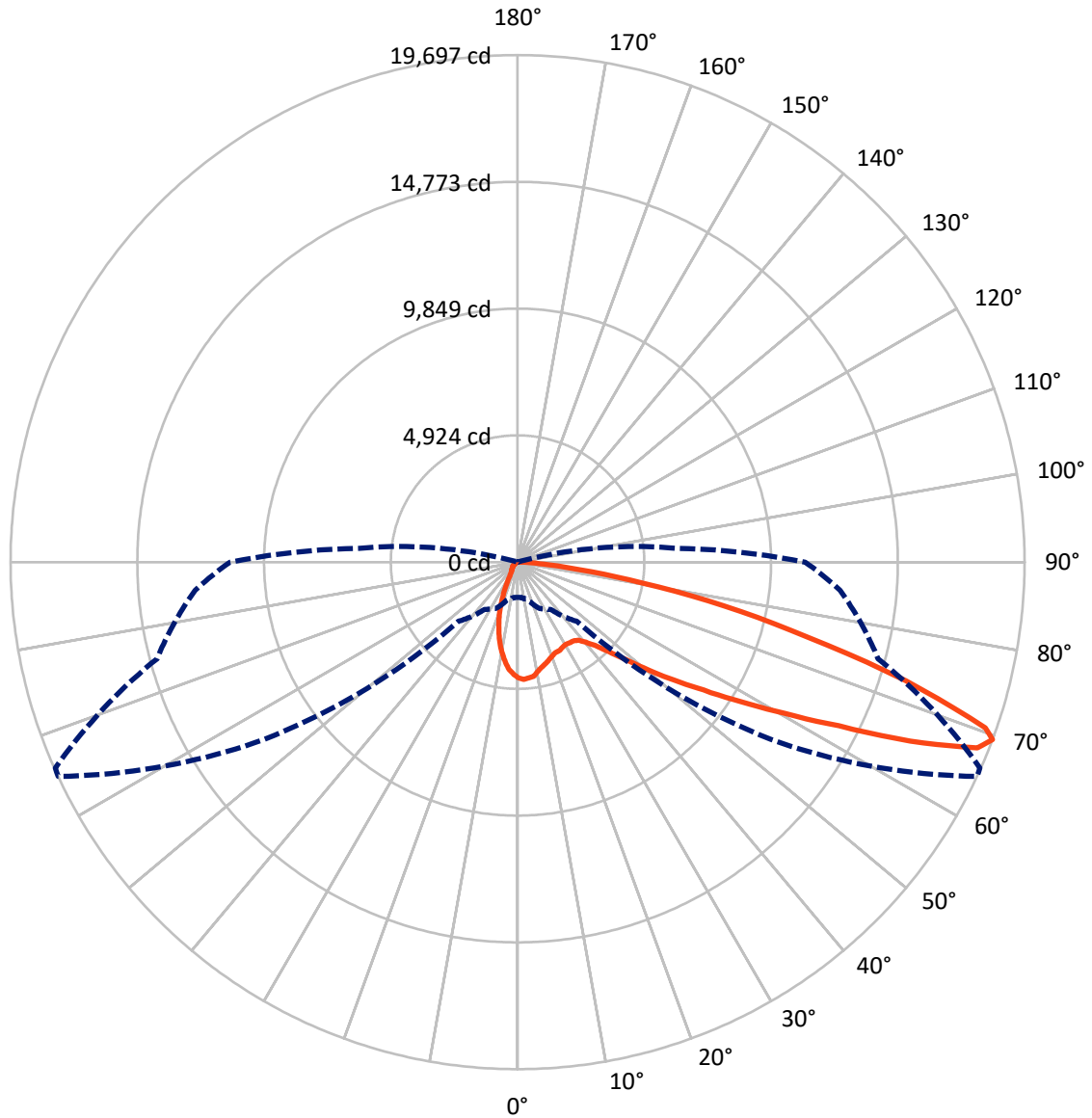
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2163.3	0.0	2163.3
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	15669.8	0.0	15669.8
	% Fixture	87.9	0.0	87.9
Total	Lumens	17833.1	0.0	17833.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	367.9	2.1
10°-20°	805.0	4.5
20°-30°	1120.8	6.3
30°-40°	1588.2	8.9
40°-50°	2503.0	14.0
50°-60°	4061.5	22.8
60°-70°	4535.9	25.4
70°-80°	2554.2	14.3
80°-90°	296.4	1.7
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°	17833.1	100.0
0°-180°	17833.1	100.0

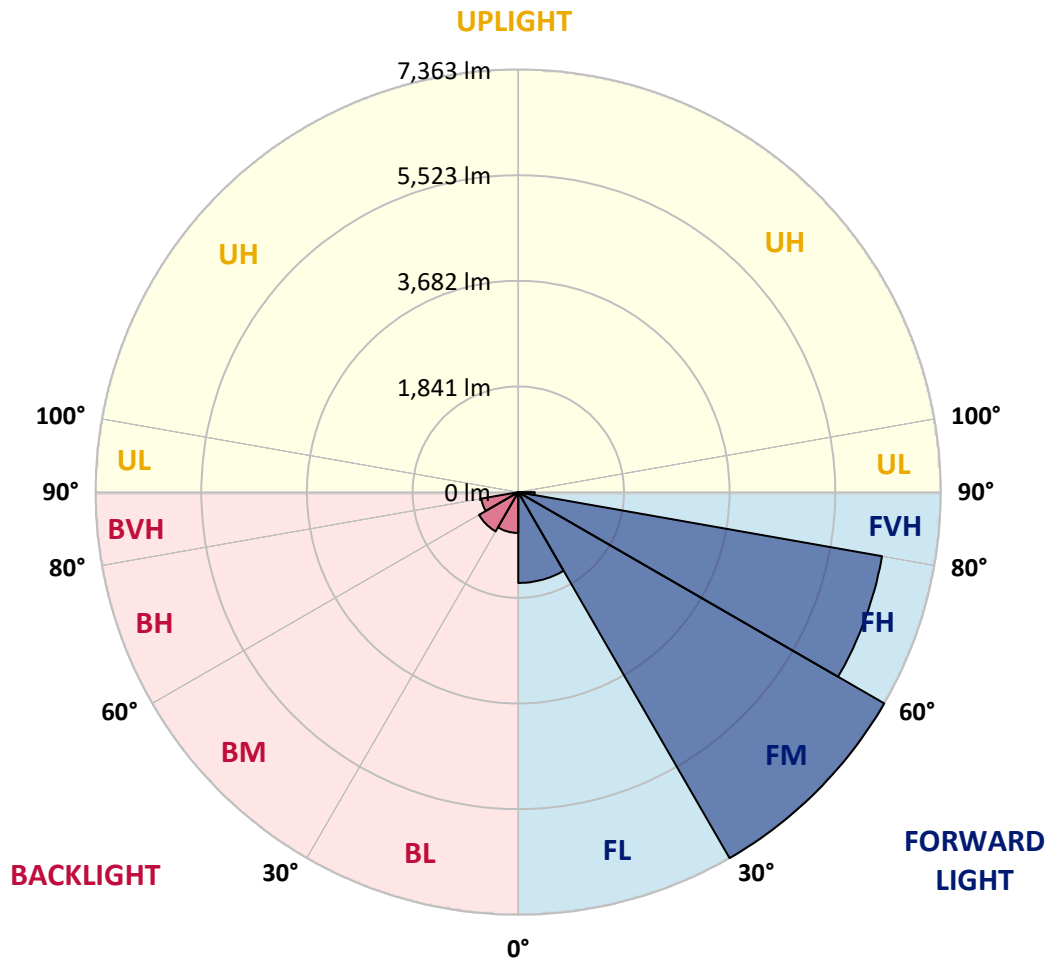


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1582.5	8.9			
FM (30°-60°)	7363.5	41.3			
FH (60°-80°)	6435.7	36.1			G3/7500
FVH (80°-90°)	288.2	1.6			G3/500
BL (0°-30°)	711.2	4.0	B2/1000		
BM (30°-60°)	789.4	4.4	B1/1000		
BH (60°-80°)	654.5	3.7	B2/1000		G2/1000
BVH (80°-90°)	8.2	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-G3
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4496.1	4496.1	4496.1	4496.1	4496.1	4496.1	4496.1	4496.1	4496.1	4496.1	4496.1
2.5°	4330.2	4363.8	4373.5	4407.1	4424.0	4496.1	4537.0	4561.1	4549.1	4575.5	4577.9
5°	4022.2	4003.0	4053.5	4089.6	4166.6	4291.7	4419.2	4517.8	4563.5	4606.8	4599.6
7.5°	3692.7	3683.0	3733.6	3815.3	3885.1	4036.7	4241.1	4484.1	4474.5	4580.3	4611.6
10°	3466.5	3476.2	3493.0	3574.8	3678.2	3832.2	4087.2	4313.3	4363.8	4587.6	4650.1
12.5°	3259.6	3276.5	3307.8	3392.0	3512.2	3671.0	3918.8	4183.4	4260.4	4546.7	4671.8
15°	3192.3	3153.8	3216.3	3278.9	3404.0	3545.9	3755.2	4084.8	4118.5	4498.5	4707.8
17.5°	3137.0	3112.9	3141.8	3192.3	3324.6	3440.1	3637.3	3978.9	4041.5	4479.3	4703.0
20°	3153.8	3132.1	3144.2	3182.7	3242.8	3351.1	3533.9	3877.9	3945.3	4390.3	4695.8
22.5°	3201.9	3218.7	3197.1	3206.7	3226.0	3281.3	3478.6	3805.7	3863.5	4373.5	4736.7
25°	3418.4	3389.5	3360.7	3348.7	3235.6	3259.6	3461.7	3800.9	3841.8	4313.3	4703.0
27.5°	3644.5	3620.5	3608.5	3538.7	3384.7	3312.6	3464.1	3733.6	3788.9	4289.3	4662.1
30°	3918.8	3950.1	3901.9	3817.8	3603.6	3425.6	3490.6	3699.9	3776.9	4197.8	4635.7
32.5°	4207.5	4224.3	4248.4	4185.8	3909.2	3596.4	3570.0	3731.1	3736.0	4197.8	4575.5
35°	4534.6	4510.6	4573.1	4577.9	4335.0	3899.5	3721.5	3752.8	3803.3	4178.6	4553.9
37.5°	4816.1	4857.0	4929.2	5044.6	4794.4	4327.7	3957.3	3853.8	3875.5	4267.6	4570.7
40°	5124.0	5164.9	5328.5	5444.0	5302.0	4808.9	4315.7	4089.6	4106.4	4399.9	4657.3
42.5°	5463.2	5542.6	5737.5	5939.5	5901.0	5419.9	4777.6	4436.0	4428.8	4729.5	4835.3
45°	5922.7	6028.5	6240.2	6473.6	6507.3	6119.9	5393.4	4953.2	4977.3	5160.1	5203.4
47.5°	6562.6	6557.8	6764.7	7024.5	7219.3	6846.5	6129.6	5648.4	5646.0	5840.9	5749.5
50°	7180.8	7183.2	7238.6	7539.3	8044.5	7854.4	7041.3	6572.2	6545.7	6642.0	6495.2
52.5°	7467.1	7433.4	7392.5	7755.8	8679.6	9124.6	8196.0	7618.7	7597.0	7539.3	7500.8
55°	7166.4	7178.4	7176.0	7553.7	9013.9	10464.5	9677.9	8771.0	8734.9	8554.5	8607.4
57.5°	6201.7	6163.3	6247.4	6836.8	8631.4	11378.7	11797.3	10224.0	10130.2	9531.1	9410.9
60°	4616.4	4628.5	4698.2	5393.4	7681.2	11571.1	13825.2	11929.6	11525.4	10219.2	10053.2
62.5°	3223.6	3199.5	3226.0	3615.7	5492.1	10801.3	15196.4	14003.2	13613.5	11001.0	10904.8
65°	2307.0	2275.7	2381.6	2619.7	3298.1	8258.6	15391.3	16764.9	16416.1	12249.5	12018.6
67.5°	1659.9	1655.1	1777.8	2210.8	2343.1	4756.0	13947.9	19266.8	19055.1	13731.4	12697.0
69°	1373.6	1376.0	1493.9	1979.8	2237.2	3247.6	12001.7	19697.4	19658.9	14496.4	12569.5
70°	1198.0	1207.6	1344.8	1842.7	2193.9	2670.3	10346.7	19274.0	19235.5	14645.5	12148.5
72.5°	738.5	745.7	926.2	1477.1	2085.7	2179.5	6187.3	15769.0	15901.3	13962.3	10466.9
75°	353.6	356.0	485.9	1068.1	2011.1	2066.4	3315.0	11636.1	11915.1	11272.8	8179.2
77.5°	187.6	187.6	233.3	567.7	1628.6	1943.8	1967.8	8208.0	8439.0	7127.9	4650.1
80°	93.8	96.2	141.9	295.9	1010.4	1905.3	1537.2	4895.5	5020.6	2908.4	1448.2
82.5°	36.1	38.5	67.4	178.0	524.4	1609.4	1349.6	2408.0	2376.8	680.8	353.6
85°	4.8	4.8	24.1	105.8	223.7	709.7	1113.8	1005.6	971.9	149.1	170.8
87.5°	0.0	0.0	4.8	31.3	67.4	206.9	430.6	276.6	307.9	40.9	84.2
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°	4496.1	4496.1	4496.1	4496.1	4496.1	4496.1	4496.1	4496.1	4496.1	4496.1	4496.1
2.5°	4565.9	4515.4	4438.4	4363.8	4284.4	4188.2	4082.4	4043.9	3976.5	3971.7	4010.2
5°	4561.1	4479.3	4344.6	4185.8	3959.7	3788.9	3603.6	3468.9	3365.5	3298.1	3315.0
7.5°	4585.2	4486.5	4253.2	3911.6	3620.5	3281.3	2995.0	2797.8	2617.3	2528.3	2518.7
10°	4546.7	4414.4	4072.7	3594.0	3165.8	2691.9	2273.3	2008.7	1739.3	1640.6	1645.5
12.5°	4568.3	4383.1	3877.9	3266.9	2677.5	2061.6	1561.3	1200.4	947.8	866.0	856.4
15°	4582.7	4315.7	3690.3	2874.7	2136.2	1404.9	904.5	680.8	601.4	587.0	584.6
17.5°	4527.4	4233.9	3425.6	2487.4	1582.9	854.0	601.4	555.7	541.3	531.6	526.8
20°	4525.0	4185.8	3197.1	2090.5	1056.1	582.2	519.6	502.8	481.1	473.9	473.9
22.5°	4484.1	4084.8	2922.9	1655.1	673.6	500.4	466.7	440.2	416.2	406.6	404.1
25°	4472.1	3966.9	2665.4	1243.7	512.4	447.4	413.8	375.3	346.4	332.0	324.8
27.5°	4438.4	3865.9	2405.6	875.7	447.4	399.3	356.0	315.1	281.5	259.8	257.4
30°	4318.1	3760.0	2117.0	606.2	406.6	353.6	305.5	257.4	223.7	209.3	204.5
32.5°	4267.6	3661.4	1801.8	466.7	370.5	312.7	257.4	214.1	187.6	173.2	170.8
35°	4207.5	3517.0	1496.3	406.6	336.8	271.8	216.5	180.4	158.8	146.7	146.7
37.5°	4214.7	3401.6	1210.0	368.1	300.7	233.3	185.2	154.0	134.7	122.7	122.7
40°	4193.0	3310.2	940.6	334.4	267.0	199.7	156.4	129.9	113.1	101.0	98.6
42.5°	4291.7	3286.1	709.7	305.5	233.3	170.8	134.7	110.7	93.8	79.4	79.4
45°	4457.7	3324.6	553.3	279.1	199.7	146.7	115.5	91.4	74.6	65.0	62.5
47.5°	4900.3	3476.2	433.0	257.4	170.8	127.5	96.2	74.6	60.1	50.5	48.1
50°	5542.6	3815.3	368.1	226.1	144.3	108.3	79.4	57.7	48.1	38.5	36.1
52.5°	6456.7	4385.5	334.4	199.7	120.3	89.0	62.5	45.7	36.1	28.9	26.5
55°	7452.7	5097.6	303.1	168.4	101.0	72.2	50.5	36.1	26.5	19.2	16.8
57.5°	8229.7	5713.4	276.6	139.5	81.8	57.7	38.5	26.5	19.2	12.0	9.6
60°	9078.9	6146.4	243.0	110.7	67.4	43.3	28.9	19.2	14.4	7.2	7.2
62.5°	9954.5	6654.0	199.7	86.6	52.9	33.7	21.7	14.4	9.6	2.4	2.4
65°	11171.8	7050.9	154.0	67.4	40.9	24.1	16.8	12.0	4.8	0.0	0.0
67.5°	11515.8	6856.1	113.1	52.9	28.9	16.8	12.0	7.2	2.4	0.0	0.0
69°	11171.8	6175.3	98.6	45.7	24.1	14.4	9.6	4.8	2.4	0.0	0.0
70°	10543.9	5646.0	86.6	38.5	21.7	14.4	7.2	4.8	2.4	0.0	0.0
72.5°	8819.1	4330.2	67.4	28.9	16.8	12.0	7.2	4.8	0.0	0.0	0.0
75°	6468.8	2675.1	50.5	21.7	14.4	9.6	7.2	4.8	0.0	0.0	0.0
77.5°	3466.5	976.7	36.1	14.4	9.6	7.2	7.2	4.8	0.0	0.0	0.0
80°	950.2	288.7	26.5	9.6	7.2	4.8	4.8	2.4	0.0	0.0	0.0
82.5°	259.8	74.6	16.8	9.6	7.2	4.8	2.4	0.0	0.0	0.0	0.0
85°	139.5	28.9	9.6	7.2	4.8	2.4	0.0	0.0	0.0	0.0	0.0
87.5°	72.2	9.6	7.2	4.8	4.8	2.4	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)