

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: P484687

Luminaire Tested: **IFLD-S-SA6D-727-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484687
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-727-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (96) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

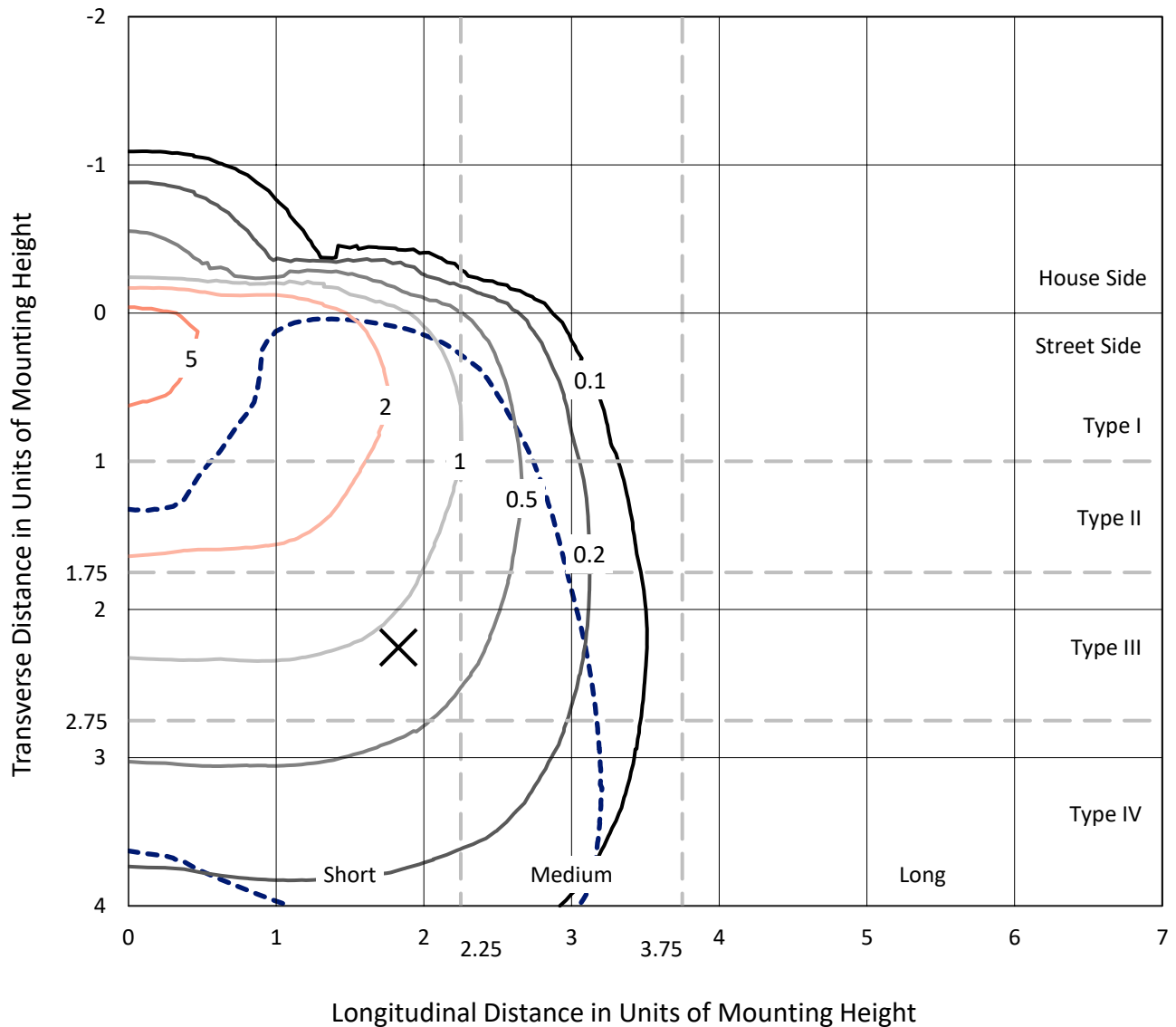
Lumens per Lamp: N/A
Luminaire Lumens: 31588.4 lumens
Efficiency: N/A
Efficacy: 85.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 368.2
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

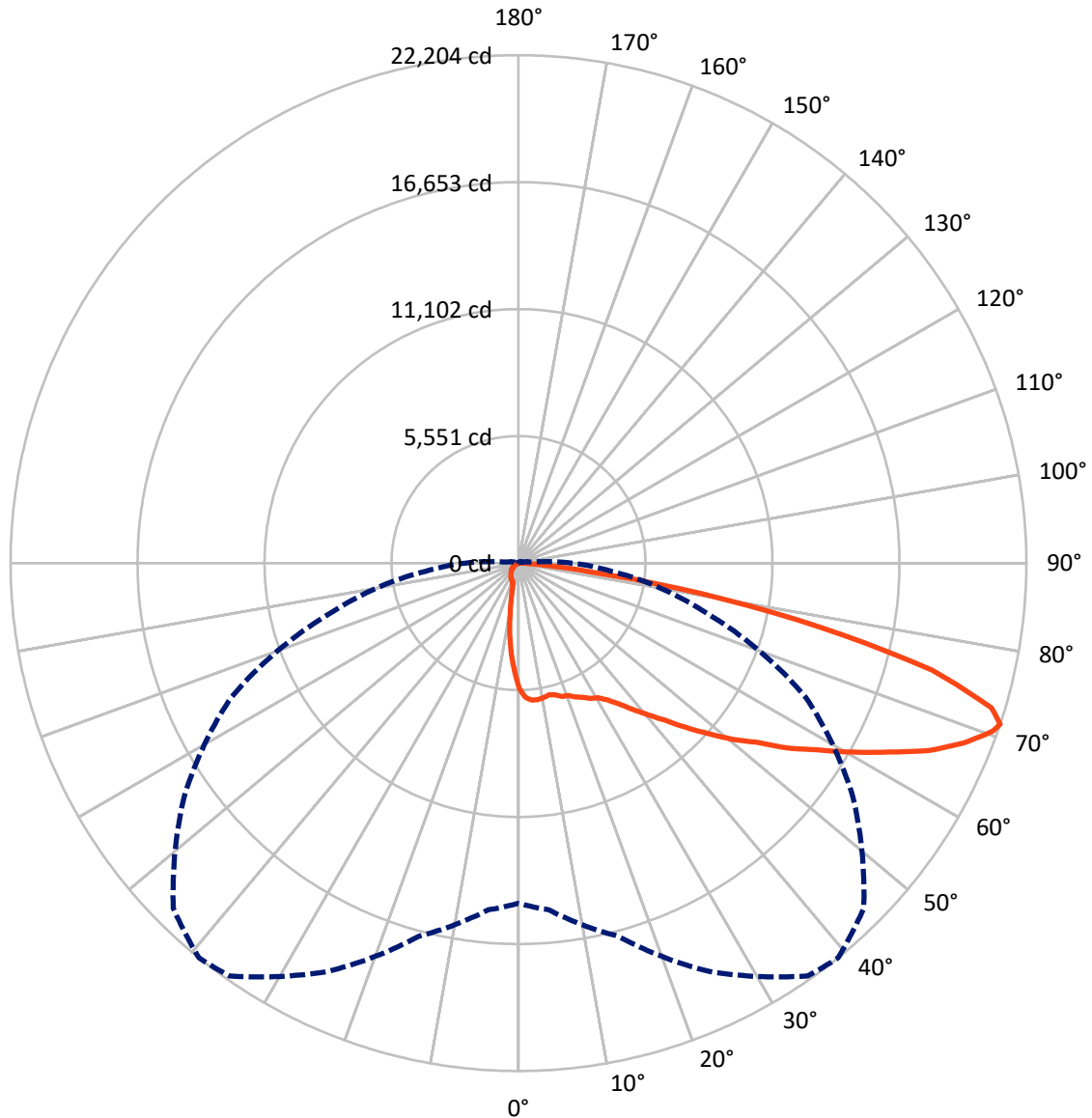
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.6 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	2378.1	0.0	2378.1
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	29210.3	0.0	29210.3
	% Fixture	92.5	0.0	92.5
Total	Lumens	31588.4	0.0	31588.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	459.7	1.5
10°-20°	1131.4	3.6
20°-30°	1816.3	5.8
30°-40°	2780.4	8.8
40°-50°	4463.0	14.1
50°-60°	6555.4	20.8
60°-70°	8256.3	26.1
70°-80°	5510.0	17.4
80°-90°	615.8	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°	31588.4	100.0
0°-180°	31588.4	100.0

Coefficient of Utilization



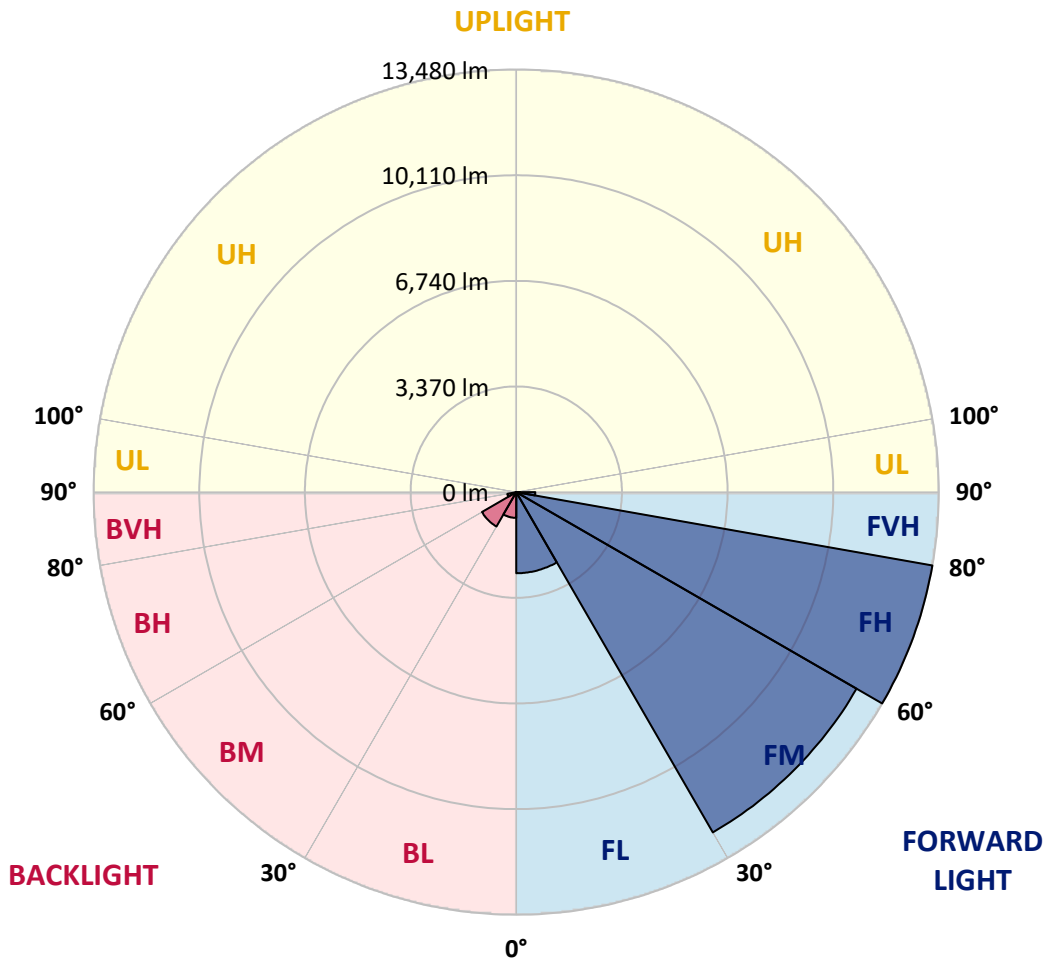
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2586.4	8.2			
FM (30°-60°)	12534.7	39.7			
FH (60°-80°)	13480.1	42.7			G5
FVH (80°-90°)	609.0	1.9			G4/750
BL (0°-30°)	821.0	2.6	B2/1000		
BM (30°-60°)	1264.1	4.0	B2/2500		
BH (60°-80°)	286.2	0.9	B1/500		G1/500
BVH (80°-90°)	6.8	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	5498.2	5498.2	5498.2	5498.2	5498.2	5498.2	5498.2	5498.2	5498.2	5498.2	5498.2
2.5°	5924.9	5982.9	5924.9	5900.1	5875.2	5879.3	5813.1	5825.5	5746.8	5643.2	5560.3
5°	6111.4	6190.1	6127.9	6098.9	6094.8	6016.1	5982.9	5904.2	5808.9	5647.3	5547.9
7.5°	6094.8	6078.2	6107.2	6082.4	6028.5	6028.5	5991.2	5879.3	5784.0	5601.7	5431.9
10°	5970.5	6020.2	5995.4	5966.4	5978.8	5982.9	5912.5	5833.8	5804.8	5622.5	5344.9
12.5°	5958.1	5875.2	5966.4	5970.5	5916.6	5912.5	5904.2	5883.5	5792.3	5626.6	5365.6
15°	5916.6	5883.5	5974.6	5978.8	5991.2	5978.8	5991.2	5974.6	5883.5	5788.2	5456.7
17.5°	5949.8	5912.5	6040.9	6103.1	6074.1	6132.1	6111.4	6036.8	5958.1	5846.2	5543.7
20°	5958.1	6011.9	6152.8	6177.7	6268.8	6173.5	6169.4	6090.7	6040.9	5920.8	5597.6
22.5°	6111.4	6136.2	6310.2	6364.1	6368.3	6355.8	6252.2	6161.1	6140.4	5991.2	5610.0
25°	6343.4	6430.4	6509.1	6542.3	6554.7	6496.7	6389.0	6273.0	6223.2	6127.9	5738.5
27.5°	6753.6	6699.7	6770.2	6819.9	6679.0	6699.7	6563.0	6463.6	6393.1	6310.2	5887.6
30°	7118.2	7068.5	7072.6	7064.3	6944.2	6832.3	6795.0	6621.0	6534.0	6567.1	6119.7
32.5°	7445.5	7337.8	7428.9	7387.5	7163.8	7130.6	7101.6	6882.0	6898.6	7051.9	6467.7
35°	7748.0	7710.7	7785.3	7710.7	7561.5	7553.2	7524.2	7333.6	7424.8	7644.4	7064.3
37.5°	8025.6	8038.0	8129.2	8091.9	8104.3	8112.6	8096.0	7893.0	8154.0	8647.1	7760.4
40°	8282.5	8265.9	8489.6	8605.6	8630.5	8721.7	8721.7	8671.9	9073.8	9629.0	8725.8
42.5°	8555.9	8597.4	8887.4	9082.1	9318.3	9397.0	9504.7	9529.6	10151.1	10785.0	9711.9
45°	9003.4	8933.0	9301.7	9761.6	9968.8	10246.4	10412.1	10553.0	11302.9	12173.0	10698.0
47.5°	9571.0	9430.2	9753.3	10420.4	10901.0	11128.9	11427.2	11613.7	12347.0	13246.1	11630.2
50°	10200.8	10055.8	10213.2	11133.1	11692.4	12106.7	12487.9	12724.1	13610.7	14447.7	12309.8
52.5°	10913.5	10780.9	10805.7	11874.7	12699.2	13001.7	13503.0	13855.2	14737.7	15172.8	12550.1
55°	11671.7	11638.5	11559.8	12599.8	13581.7	14261.2	14563.7	14986.3	15893.7	15566.4	12811.1
57.5°	12434.1	12330.5	12442.3	13561.0	14998.8	15404.8	15823.3	16076.0	16535.9	15910.3	12711.7
60°	13150.8	13159.1	13316.6	14605.1	16204.5	16780.4	17157.4	17004.1	17194.7	16059.4	12483.8
62.5°	13755.8	13739.2	14136.9	15777.7	17799.6	18189.1	18470.8	17787.2	17501.3	16204.5	12086.0
65°	14298.5	14485.0	15110.6	17174.0	19299.5	19747.0	19577.1	18528.8	17799.6	15777.7	10967.3
67.5°	14708.7	14986.3	16071.9	18487.4	20675.1	20990.0	20753.8	19092.3	17447.4	14103.8	8933.0
70°	14949.0	15230.8	16759.7	19581.2	21773.1	22000.9	21445.7	18657.3	15392.4	10213.2	5572.7
71°	14874.5	15218.3	16892.2	19697.3	22034.1	22204.0	21342.1	17853.5	13842.8	8551.8	4064.6
72.5°	14199.1	14522.3	16341.2	19614.4	21719.2	21615.6	20534.2	15922.7	10896.9	5452.6	2100.7
75°	10432.8	10780.9	14025.1	16966.8	19386.5	18673.9	16618.8	11174.5	5684.6	1669.8	613.2
77.5°	5195.7	5253.7	8705.1	12318.0	14219.8	13511.3	11137.2	6231.5	2125.5	493.1	306.6
80°	2394.8	2411.4	3264.9	6380.7	8597.4	8091.9	6239.8	3074.3	961.2	261.0	240.3
82.5°	1632.5	1657.3	1968.1	2643.4	3733.1	3148.9	2527.4	1968.1	551.1	157.4	236.2
85°	298.3	273.5	1102.1	1400.4	1441.9	977.8	874.2	1702.9	207.2	91.2	207.2
87.5°	0.0	4.1	153.3	571.8	513.8	227.9	298.3	414.3	20.7	29.0	37.3
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°	5498.2	5498.2	5498.2	5498.2	5498.2	5498.2	5498.2	5498.2	5498.2	5498.2	5498.2
2.5°	5489.9	5444.3	5291.0	5121.1	4967.8	4847.7	4694.4	4623.9	4512.1	4449.9	4445.8
5°	5411.2	5286.9	5021.7	4735.8	4416.8	4151.6	3857.4	3691.7	3501.1	3443.1	3430.7
7.5°	5278.6	5100.4	4710.9	4309.0	3820.1	3351.9	2991.5	2606.1	2370.0	2270.5	2233.2
10°	5195.7	4980.2	4449.9	3849.1	3165.5	2506.7	2001.2	1591.0	1375.6	1272.0	1247.1
12.5°	5195.7	4963.7	4238.6	3409.9	2502.6	1715.3	1238.8	1002.7	932.2	907.4	907.4
15°	5183.3	4930.5	4035.6	2958.3	1852.1	1151.8	924.0	874.2	866.0	861.8	857.7
17.5°	5245.4	4872.5	3828.4	2473.6	1309.3	907.4	849.4	841.1	832.8	832.8	824.5
20°	5291.0	4839.4	3579.8	1959.8	977.8	841.1	816.2	803.8	799.7	795.5	803.8
22.5°	5253.7	4789.7	3273.2	1466.7	853.5	799.7	783.1	770.7	762.4	762.4	766.5
25°	5324.1	4744.1	2966.6	1106.3	799.7	762.4	745.8	737.5	733.4	729.2	720.9
27.5°	5419.4	4764.8	2602.0	890.8	754.1	725.1	708.5	700.2	696.1	687.8	696.1
30°	5535.5	4760.7	2200.1	778.9	712.6	683.6	667.1	662.9	654.6	650.5	654.6
32.5°	5734.3	4868.4	1785.8	720.9	667.1	642.2	625.6	621.5	617.4	613.2	609.1
35°	6161.1	5001.0	1396.3	675.4	625.6	596.6	584.2	575.9	571.8	567.6	563.5
37.5°	6687.3	5295.1	1064.8	633.9	584.2	555.2	542.8	538.6	522.1	517.9	513.8
40°	7346.1	5610.0	820.4	588.3	546.9	517.9	505.5	493.1	472.3	464.0	455.8
42.5°	8166.4	5916.6	675.4	546.9	505.5	484.8	464.0	443.3	426.8	410.2	401.9
45°	8986.8	6273.0	592.5	509.6	472.3	447.5	430.9	401.9	372.9	348.0	343.9
47.5°	9670.5	6401.4	542.8	468.2	439.2	418.5	393.6	356.3	314.9	290.0	285.9
50°	10180.1	6326.8	493.1	426.8	401.9	381.2	348.0	302.5	261.0	236.2	227.9
52.5°	10279.5	5999.5	447.5	393.6	364.6	339.8	302.5	252.7	207.2	182.3	178.2
55°	10209.1	5456.7	410.2	364.6	331.5	294.2	252.7	203.0	161.6	136.7	132.6
57.5°	10064.1	4814.5	368.8	327.3	290.0	252.7	207.2	165.7	120.2	95.3	95.3
60°	9571.0	3940.3	327.3	285.9	248.6	215.5	169.9	120.2	82.9	62.1	58.0
62.5°	8883.2	3028.8	285.9	244.5	215.5	178.2	132.6	87.0	49.7	33.1	33.1
65°	7627.8	2121.4	240.3	203.0	178.2	145.0	99.4	53.9	29.0	12.4	12.4
67.5°	5796.5	1313.4	198.9	169.9	153.3	116.0	70.4	33.1	12.4	4.1	0.0
70°	3327.1	683.6	157.4	136.7	120.2	87.0	49.7	16.6	8.3	0.0	0.0
71°	2324.4	505.5	140.9	120.2	107.7	78.7	41.4	12.4	4.1	0.0	0.0
72.5°	1164.3	335.6	120.2	99.4	87.0	62.1	33.1	12.4	4.1	0.0	0.0
75°	414.3	215.5	82.9	66.3	62.1	45.6	20.7	8.3	4.1	0.0	0.0
77.5°	285.9	174.0	58.0	41.4	41.4	29.0	12.4	4.1	4.1	0.0	0.0
80°	261.0	95.3	37.3	24.9	20.7	16.6	8.3	4.1	0.0	0.0	0.0
82.5°	261.0	70.4	20.7	16.6	12.4	8.3	4.1	0.0	0.0	0.0	0.0
85°	182.3	37.3	12.4	12.4	8.3	4.1	0.0	0.0	0.0	0.0	0.0
87.5°	29.0	12.4	8.3	4.1	4.1	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)