

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: P484028

Luminaire Tested: **IFLD-M-SA4C-740-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484028
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-740-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

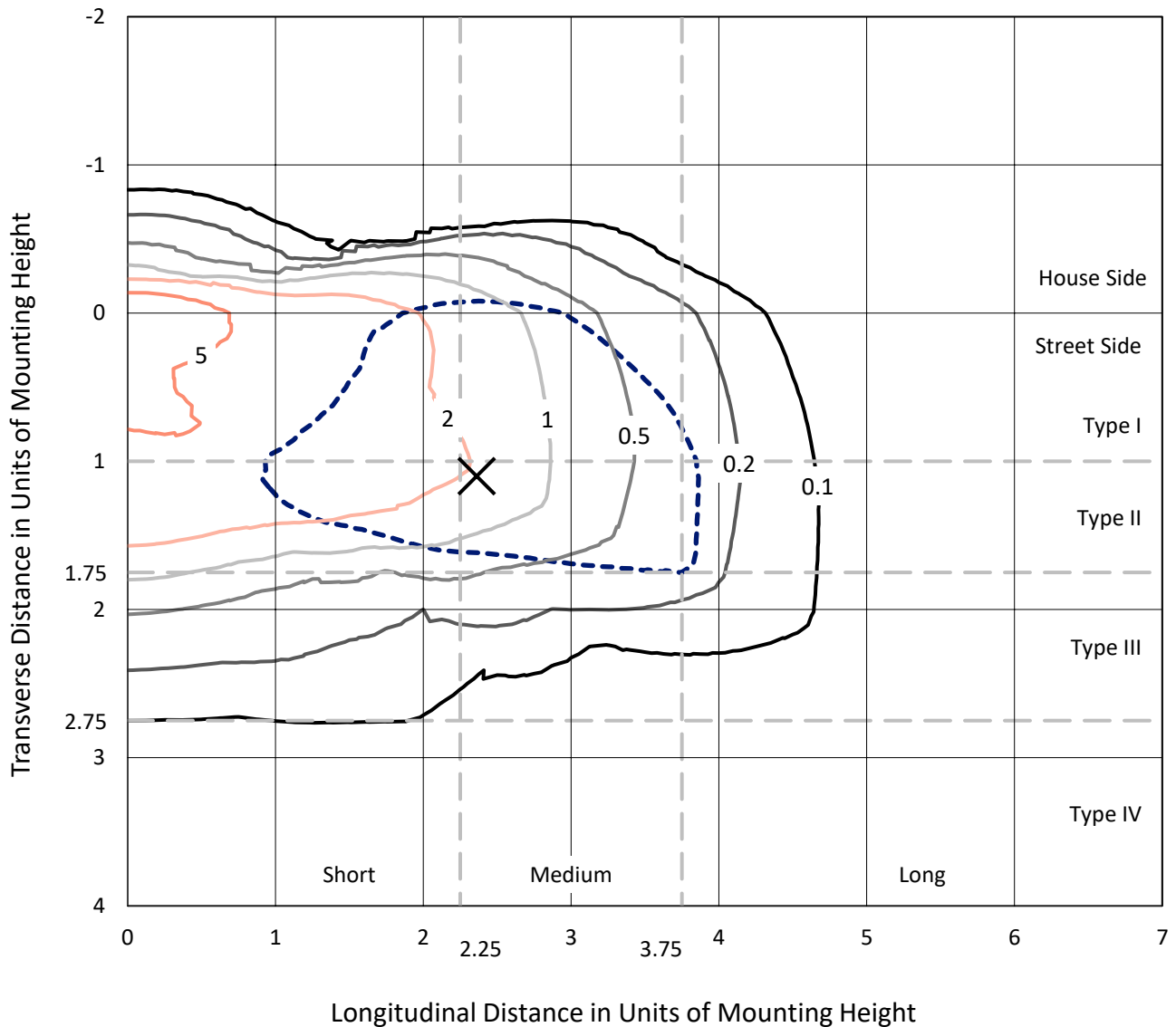
Lumens per Lamp: N/A
Luminaire Lumens: 23400.8 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

Input Watts (W): 218.1
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

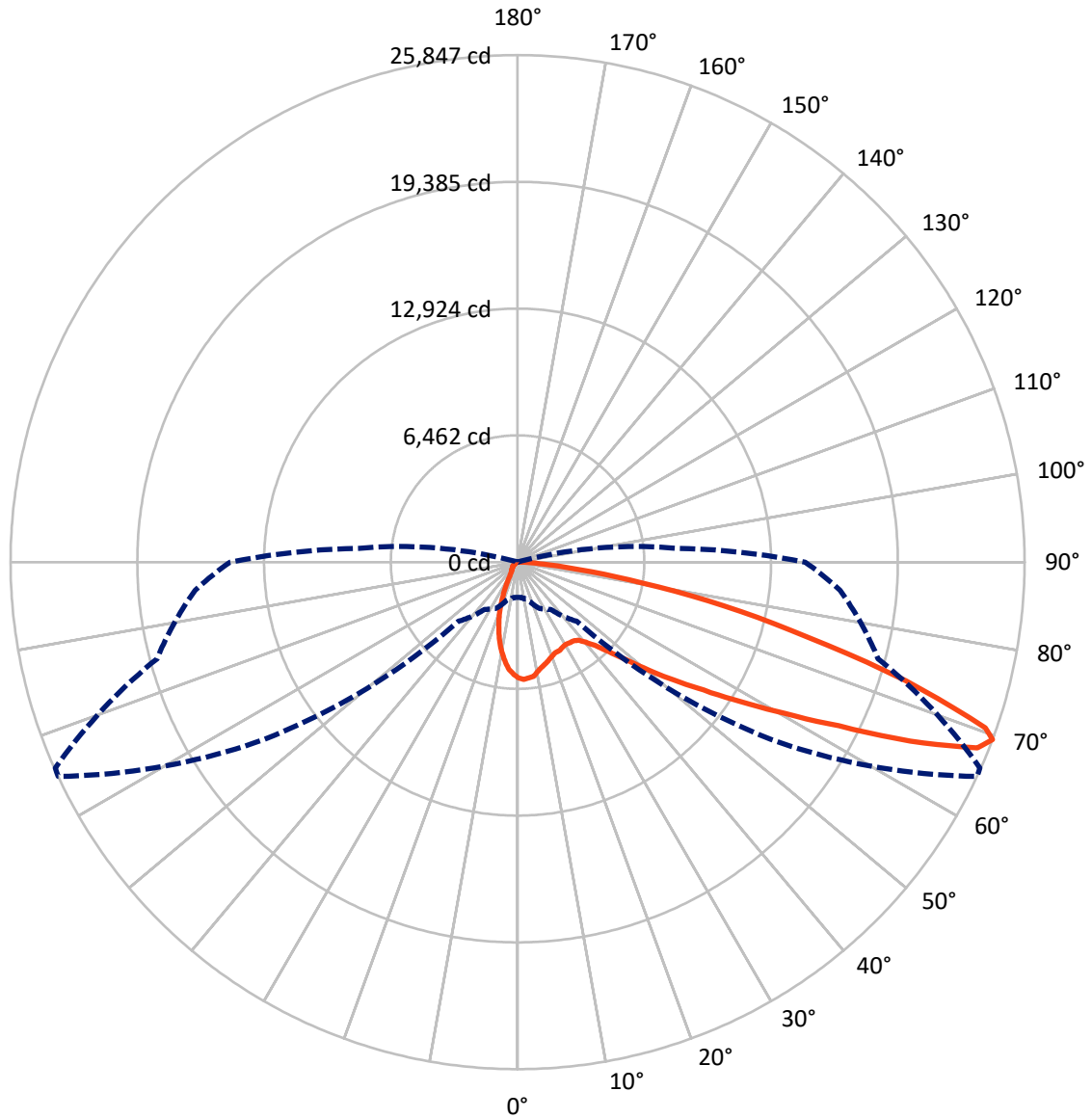
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 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	2838.7	0.0	2838.7
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	20562.1	0.0	20562.1
	% Fixture	87.9	0.0	87.9
Total	Lumens	23400.8	0.0	23400.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	482.8	2.1
10°-20°	1056.4	4.5
20°-30°	1470.7	6.3
30°-40°	2084.1	8.9
40°-50°	3284.5	14.0
50°-60°	5329.6	22.8
60°-70°	5952.1	25.4
70°-80°	3351.7	14.3
80°-90°	388.9	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°	23400.8	100.0
0°-180°	23400.8	100.0

Coefficient of Utilization

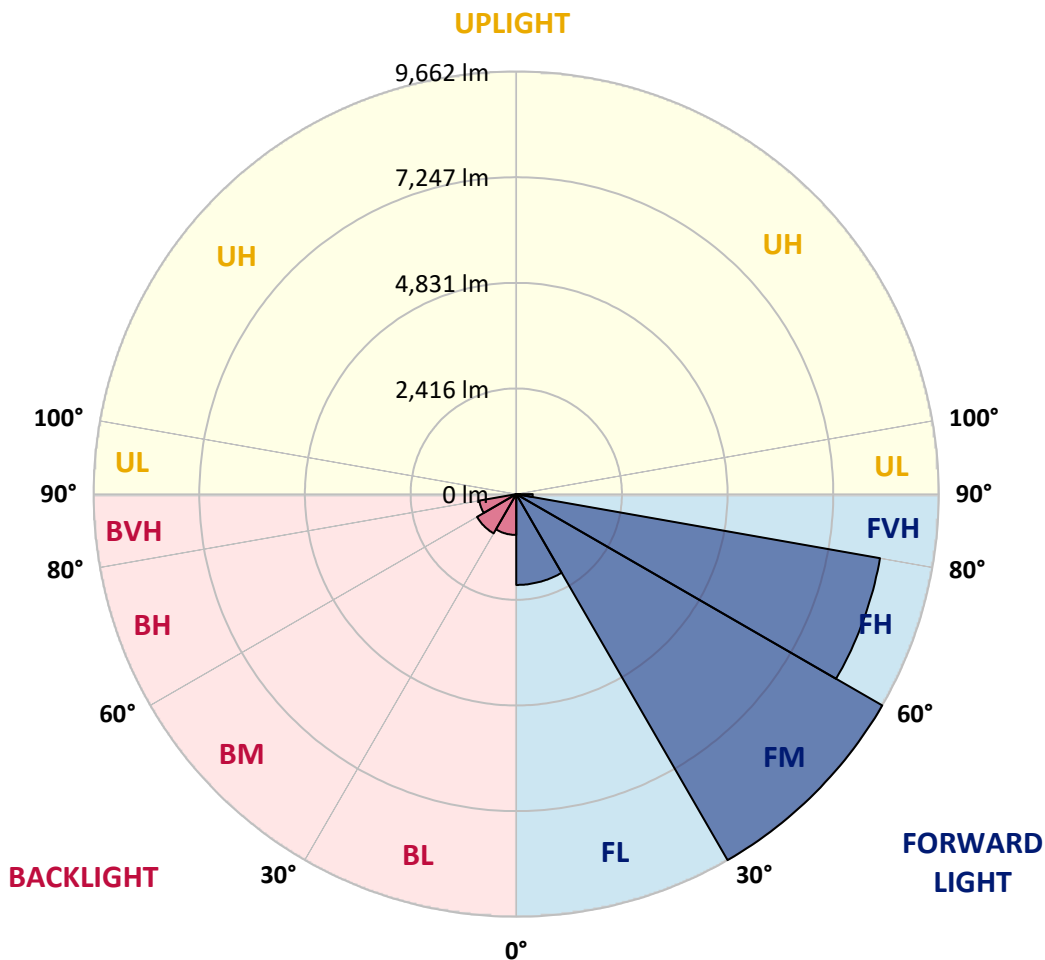


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2076.6	8.9			
FM (30°-60°)	9662.4	41.3			
FH (60°-80°)	8444.9	36.1			G4/12000
FVH (80°-90°)	378.2	1.6			G3/500
BL (0°-30°)	933.3	4.0	B2/1000		
BM (30°-60°)	1035.8	4.4	B2/2500		
BH (60°-80°)	858.9	3.7	B2/1000		G2/1000
BVH (80°-90°)	10.7	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5899.9	5899.9	5899.9	5899.9	5899.9	5899.9	5899.9	5899.9	5899.9	5899.9	5899.9
2.5°	5682.1	5726.3	5738.9	5783.1	5805.2	5899.9	5953.5	5985.1	5969.3	6004.0	6007.2
5°	5278.0	5252.8	5319.0	5366.4	5467.4	5631.6	5798.9	5928.3	5988.3	6045.1	6035.6
7.5°	4845.5	4832.9	4899.2	5006.5	5098.1	5296.9	5565.3	5884.1	5871.5	6010.4	6051.4
10°	4548.8	4561.4	4583.5	4690.9	4826.6	5028.6	5363.2	5660.0	5726.3	6019.8	6101.9
12.5°	4277.3	4299.4	4340.5	4450.9	4608.8	4817.1	5142.3	5489.5	5590.5	5966.2	6130.3
15°	4188.9	4138.4	4220.5	4302.6	4466.7	4653.0	4927.6	5360.1	5404.3	5903.0	6177.7
17.5°	4116.3	4084.8	4122.7	4188.9	4362.6	4514.1	4772.9	5221.2	5303.3	5877.8	6171.4
20°	4138.4	4110.0	4125.8	4176.3	4255.2	4397.3	4637.2	5088.6	5177.0	5761.0	6161.9
22.5°	4201.6	4223.7	4195.3	4207.9	4233.1	4305.7	4564.6	4993.9	5069.7	5738.9	6215.5
25°	4485.7	4447.8	4409.9	4394.1	4245.8	4277.3	4542.5	4987.6	5041.3	5660.0	6171.4
27.5°	4782.4	4750.8	4735.1	4643.5	4441.5	4346.8	4545.7	4899.2	4971.8	5628.4	6117.7
30°	5142.3	5183.3	5120.2	5009.7	4728.7	4495.1	4580.4	4855.0	4956.0	5508.4	6083.0
32.5°	5521.1	5543.2	5574.7	5492.7	5129.6	4719.3	4684.5	4896.0	4902.4	5508.4	6004.0
35°	5950.4	5918.8	6000.9	6007.2	5688.4	5117.0	4883.4	4924.5	4990.7	5483.2	5975.6
37.5°	6319.7	6373.4	6468.1	6619.6	6291.3	5678.9	5192.8	5057.0	5085.4	5600.0	5997.7
40°	6723.8	6777.4	6992.1	7143.6	6957.4	6310.2	5663.1	5366.4	5388.5	5773.6	6111.4
42.5°	7168.9	7273.0	7528.7	7793.9	7743.4	7112.0	6269.2	5821.0	5811.5	6206.1	6345.0
45°	7771.8	7910.7	8188.5	8494.7	8538.9	8030.6	7077.3	6499.6	6531.2	6771.1	6827.9
47.5°	8611.5	8605.2	8876.6	9217.6	9473.3	8984.0	8043.3	7411.9	7408.8	7664.5	7544.5
50°	9422.8	9425.9	9498.5	9893.1	10556.0	10306.6	9239.7	8624.1	8589.4	8715.7	8523.1
52.5°	9798.4	9754.2	9700.5	10177.2	11389.4	11973.4	10754.9	9997.3	9968.9	9893.1	9842.6
55°	9403.8	9419.6	9416.4	9912.0	11828.2	13731.7	12699.4	11509.3	11462.0	11225.2	11294.7
57.5°	8138.0	8087.5	8198.0	8971.3	11326.2	14931.2	15480.5	13416.0	13292.9	12506.9	12349.0
60°	6057.7	6073.5	6165.0	7077.3	10079.3	15183.7	18141.6	15654.1	15123.8	13409.7	13191.9
62.5°	4230.0	4198.4	4233.1	4744.5	7206.8	14173.6	19940.9	18375.2	17863.8	14435.6	14309.3
65°	3027.3	2986.2	3125.1	3437.6	4327.8	10837.0	20196.6	21999.1	21541.3	16073.9	15770.9
67.5°	2178.1	2171.8	2332.8	2901.0	3074.6	6240.8	18302.6	25282.0	25004.2	18018.5	16661.1
69°	1802.5	1805.6	1960.3	2598.0	2935.7	4261.5	15748.8	25847.1	25796.6	19022.3	16493.8
70°	1572.0	1584.7	1764.6	2418.0	2878.9	3503.9	13577.0	25291.5	25241.0	19218.0	15941.3
72.5°	969.1	978.6	1215.3	1938.2	2736.9	2860.0	8119.0	20692.2	20865.8	18321.5	13734.8
75°	464.0	467.2	637.7	1401.6	2639.0	2711.6	4349.9	15269.0	15635.1	14792.3	10732.8
77.5°	246.2	246.2	306.2	745.0	2137.1	2550.6	2582.2	10770.7	11073.7	9353.3	6101.9
80°	123.1	126.3	186.2	388.3	1325.8	2500.1	2017.1	6423.9	6588.0	3816.5	1900.3
82.5°	47.4	50.5	88.4	233.6	688.2	2111.8	1770.9	3159.9	3118.8	893.3	464.0
85°	6.3	6.3	31.6	138.9	293.6	931.2	1461.6	1319.5	1275.3	195.7	224.1
87.5°	0.0	0.0	6.3	41.0	88.4	271.5	565.0	363.0	404.1	53.7	110.5
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°	5899.9	5899.9	5899.9	5899.9	5899.9	5899.9	5899.9	5899.9	5899.9	5899.9	5899.9
2.5°	5991.4	5925.1	5824.1	5726.3	5622.1	5495.8	5356.9	5306.4	5218.0	5211.7	5262.2
5°	5985.1	5877.8	5701.0	5492.7	5195.9	4971.8	4728.7	4552.0	4416.2	4327.8	4349.9
7.5°	6016.7	5887.2	5581.0	5132.8	4750.8	4305.7	3930.1	3671.2	3434.5	3317.7	3305.1
10°	5966.2	5792.5	5344.3	4716.1	4154.2	3532.3	2983.1	2635.8	2282.3	2152.9	2159.2
12.5°	5994.6	5751.5	5088.6	4286.8	3513.4	2705.3	2048.7	1575.2	1243.7	1136.4	1123.8
15°	6013.5	5663.1	4842.4	3772.3	2803.2	1843.5	1186.9	893.3	789.2	770.2	767.1
17.5°	5940.9	5555.8	4495.1	3264.0	2077.1	1120.6	789.2	729.2	710.3	697.6	691.3
20°	5937.8	5492.7	4195.3	2743.2	1385.8	763.9	681.8	659.8	631.3	621.9	621.9
22.5°	5884.1	5360.1	3835.4	2171.8	883.9	656.6	612.4	577.7	546.1	533.5	530.3
25°	5868.3	5205.4	3497.6	1632.0	672.4	587.1	543.0	492.4	454.6	435.6	426.2
27.5°	5824.1	5072.8	3156.7	1149.0	587.1	524.0	467.2	413.5	369.3	340.9	337.8
30°	5666.3	4933.9	2777.9	795.5	533.5	464.0	400.9	337.8	293.6	274.6	268.3
32.5°	5600.0	4804.5	2364.4	612.4	486.1	410.4	337.8	280.9	246.2	227.3	224.1
35°	5521.1	4615.1	1963.5	533.5	441.9	356.7	284.1	236.8	208.3	192.6	192.6
37.5°	5530.5	4463.6	1587.8	483.0	394.6	306.2	243.1	202.0	176.8	161.0	161.0
40°	5502.1	4343.6	1234.3	438.8	350.4	262.0	205.2	170.5	148.4	132.6	129.4
42.5°	5631.6	4312.1	931.2	400.9	306.2	224.1	176.8	145.2	123.1	104.2	104.2
45°	5849.4	4362.6	726.0	366.2	262.0	192.6	151.5	120.0	97.9	85.2	82.1
47.5°	6430.2	4561.4	568.2	337.8	224.1	167.3	126.3	97.9	78.9	66.3	63.1
50°	7273.0	5006.5	483.0	296.7	189.4	142.1	104.2	75.8	63.1	50.5	47.4
52.5°	8472.6	5754.7	438.8	262.0	157.8	116.8	82.1	60.0	47.4	37.9	34.7
55°	9779.5	6689.1	397.7	221.0	132.6	94.7	66.3	47.4	34.7	25.3	22.1
57.5°	10799.1	7497.2	363.0	183.1	107.3	75.8	50.5	34.7	25.3	15.8	12.6
60°	11913.4	8065.4	318.8	145.2	88.4	56.8	37.9	25.3	18.9	9.5	9.5
62.5°	13062.4	8731.4	262.0	113.6	69.4	44.2	28.4	18.9	12.6	3.2	3.2
65°	14659.7	9252.3	202.0	88.4	53.7	31.6	22.1	15.8	6.3	0.0	0.0
67.5°	15111.1	8996.6	148.4	69.4	37.9	22.1	15.8	9.5	3.2	0.0	0.0
69°	14659.7	8103.3	129.4	60.0	31.6	18.9	12.6	6.3	3.2	0.0	0.0
70°	13835.8	7408.8	113.6	50.5	28.4	18.9	9.5	6.3	3.2	0.0	0.0
72.5°	11572.5	5682.1	88.4	37.9	22.1	15.8	9.5	6.3	0.0	0.0	0.0
75°	8488.4	3510.3	66.3	28.4	18.9	12.6	9.5	6.3	0.0	0.0	0.0
77.5°	4548.8	1281.6	47.4	18.9	12.6	9.5	9.5	6.3	0.0	0.0	0.0
80°	1246.9	378.8	34.7	12.6	9.5	6.3	6.3	3.2	0.0	0.0	0.0
82.5°	340.9	97.9	22.1	12.6	9.5	6.3	3.2	0.0	0.0	0.0	0.0
85°	183.1	37.9	12.6	9.5	6.3	3.2	0.0	0.0	0.0	0.0	0.0
87.5°	94.7	12.6	9.5	6.3	6.3	3.2	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)