

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: P484378

Luminaire Tested: **IFLD-M-SA4B-735-U-SL3-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P484378  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4B-735-U-SL3-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield  
Light Source: (64) 3500K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

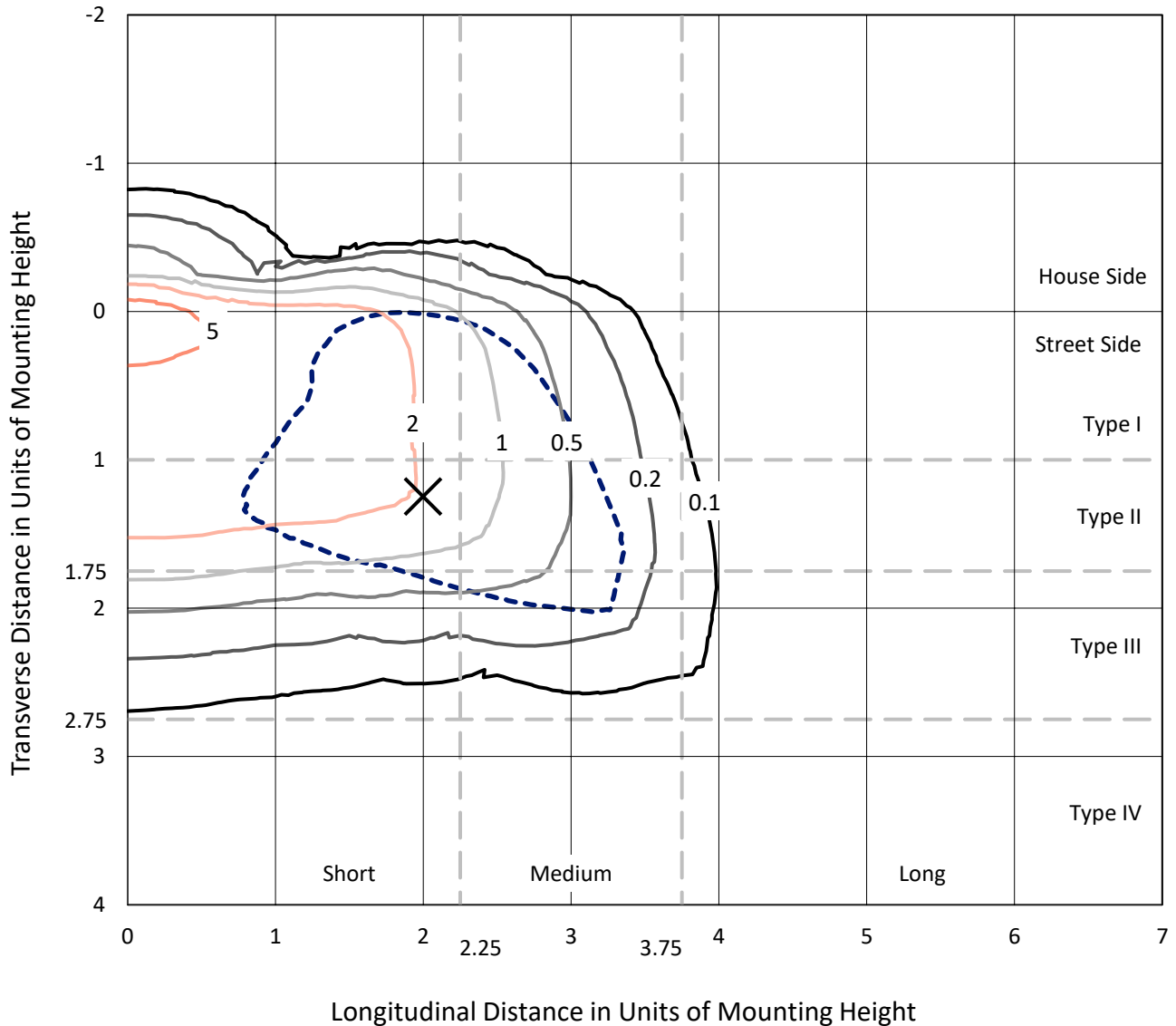
Lumens per Lamp: N/A  
Luminaire Lumens: 18838.8 lumens  
Efficiency: N/A  
Efficacy: 113.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

Input Watts (W): 166.1  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

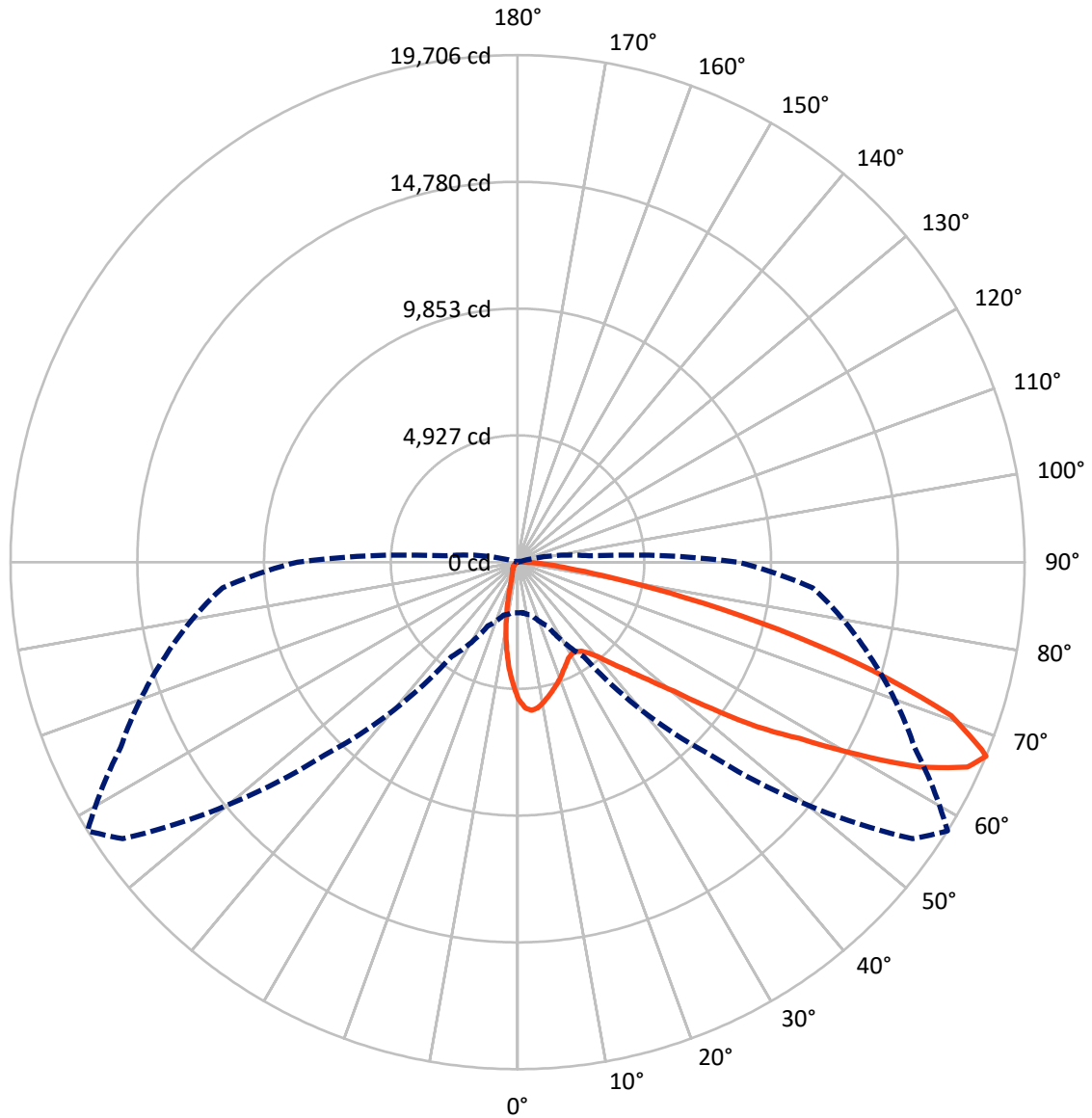
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1557.1	0.0	1557.1
	% Fixture	8.3	0.0	8.3
<b>Street Side</b>	Lumens	17281.7	0.0	17281.7
	% Fixture	91.7	0.0	91.7
<b>Total</b>	Lumens	18838.8	0.0	18838.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	423.5	2.2
10°-20°	878.4	4.7
20°-30°	1165.4	6.2
30°-40°	1614.9	8.6
40°-50°	2635.1	14.0
50°-60°	4631.7	24.6
60°-70°	5129.9	27.2
70°-80°	2125.8	11.3
80°-90°	234.0	1.2
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°	18838.8	100.0
0°-180°	18838.8	100.0



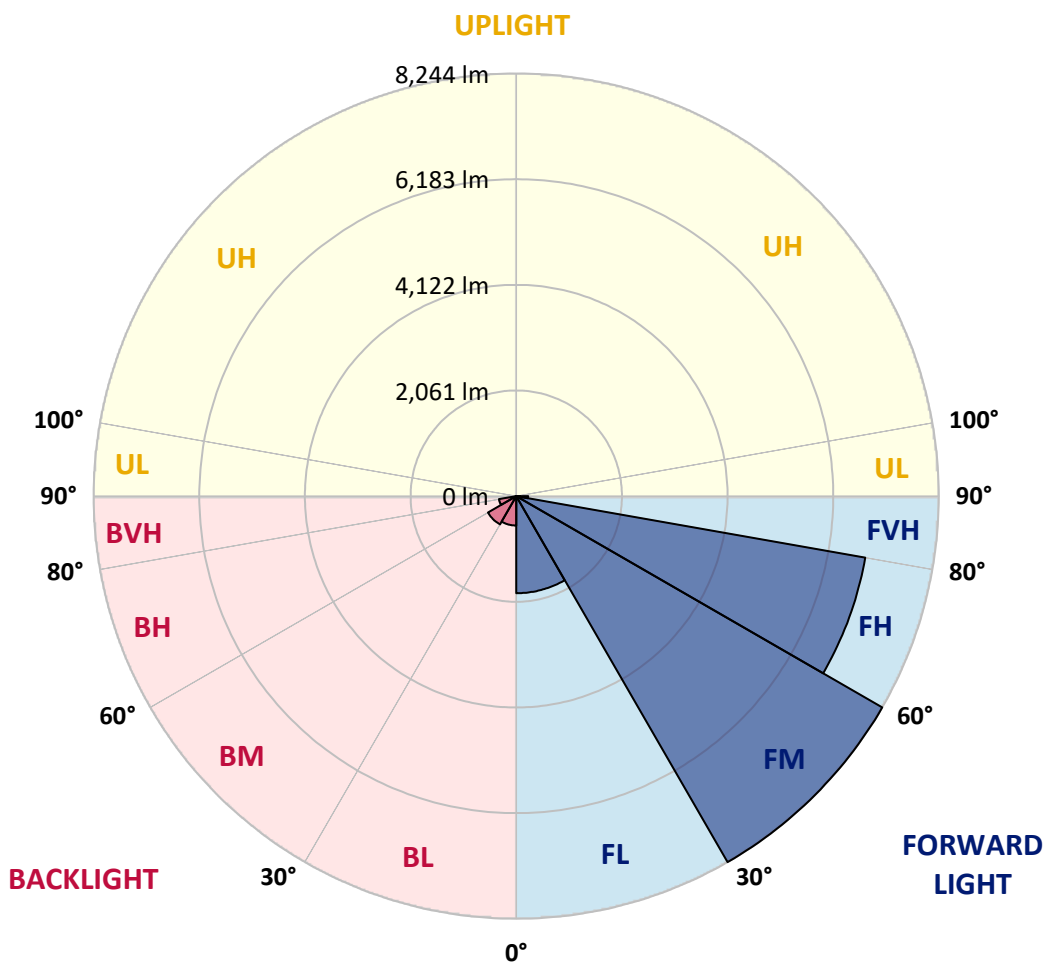
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1893.8	10.1			
FM (30°-60°)	8244.3	43.8			
FH (60°-80°)	6913.4	36.7			G3/7500
FVH (80°-90°)	230.2	1.2			G3/500
BL (0°-30°)	573.5	3.0	B2/1000		
BM (30°-60°)	637.4	3.4	B1/1000		
BH (60°-80°)	342.4	1.8	B1/500		G1/500
BVH (80°-90°)	3.8	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-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	5337.3	5337.3	5337.3	5337.3	5337.3	5337.3	5337.3	5337.3	5337.3	5337.3	5337.3
2.5°	5807.5	5827.5	5845.0	5812.5	5840.0	5800.0	5697.5	5674.9	5657.4	5504.9	5417.3
5°	5805.0	5782.5	5800.0	5815.0	5777.5	5807.5	5782.5	5785.0	5717.5	5579.9	5334.8
7.5°	5417.3	5407.3	5417.3	5489.9	5572.4	5637.4	5674.9	5712.5	5667.4	5462.4	5224.8
10°	4894.6	4944.6	4972.1	5102.2	5229.8	5349.8	5467.4	5537.4	5524.9	5442.3	5104.7
12.5°	4529.5	4514.4	4614.5	4699.5	4827.1	5069.7	5274.8	5339.8	5414.8	5299.8	4947.1
15°	4191.8	4151.8	4211.8	4359.4	4577.0	4769.6	5057.2	5154.7	5249.8	5279.8	4862.1
17.5°	3869.2	3889.2	3951.7	4084.3	4289.3	4559.5	4829.6	4969.6	5197.2	5157.2	4734.5
20°	3714.1	3756.6	3779.1	3846.7	3989.2	4259.3	4662.0	4774.6	5017.2	5154.7	4609.5
22.5°	3721.6	3721.6	3669.1	3709.1	3839.2	4049.2	4434.4	4559.5	4944.6	5024.7	4496.9
25°	3801.6	3751.6	3754.1	3706.6	3761.6	3876.7	4229.3	4381.9	4797.1	5037.2	4436.9
27.5°	3861.7	3851.7	3836.7	3824.1	3754.1	3771.6	4094.3	4219.3	4739.5	5022.2	4344.4
30°	4079.3	4034.2	4019.2	3991.7	3899.2	3814.1	3986.7	4144.3	4694.5	5057.2	4291.9
32.5°	4261.8	4269.3	4281.8	4201.8	4121.8	3911.7	4016.7	4141.8	4662.0	5137.2	4344.4
35°	4491.9	4524.5	4529.5	4504.4	4419.4	4211.8	4141.8	4249.3	4717.0	5279.8	4349.4
37.5°	4842.1	4807.1	4902.1	4912.1	4852.1	4577.0	4431.9	4474.4	4879.6	5507.4	4539.5
40°	5069.7	5112.2	5289.8	5399.8	5297.3	5047.2	4852.1	4844.6	5114.7	5865.0	4774.6
42.5°	5322.3	5417.3	5612.4	5850.0	5837.5	5604.9	5407.3	5374.8	5532.4	6382.8	5147.2
45°	5667.4	5752.5	6025.1	6382.8	6577.8	6380.3	6082.6	6017.6	6040.1	7088.1	5782.5
47.5°	6240.2	6217.7	6610.3	6963.0	7283.1	7130.6	7003.0	6812.9	6795.4	7918.4	6660.4
50°	6888.0	6883.0	7233.1	7633.3	8003.4	8301.1	8088.5	7880.9	7885.9	9046.4	7693.3
52.5°	7503.2	7600.8	7978.4	8376.1	9011.4	9331.5	9536.6	9454.1	9056.4	10054.3	8798.8
55°	7828.4	7913.4	8288.6	8973.9	9976.8	10799.7	11354.9	11284.9	10517.0	11189.8	9889.3
57.5°	7520.7	7578.3	8086.0	8983.9	10652.1	12487.9	13020.6	12933.1	12027.7	12057.7	11207.3
60°	6232.7	6322.7	7078.1	8131.0	10389.5	13788.4	15314.1	15181.5	13403.3	13155.7	12055.2
62.5°	4316.9	4376.9	4997.2	6307.7	9143.9	14241.1	17480.0	17552.6	14853.9	14011.0	12307.8
65°	2796.2	2791.2	3146.4	4034.2	6480.3	12870.5	18760.6	19210.8	16254.5	14141.1	12230.3
67°	1975.9	1968.3	2135.9	2736.2	4486.9	10604.6	18738.1	19706.0	17014.8	14178.6	11512.5
67.5°	1823.3	1815.8	1975.9	2516.1	4049.2	9861.8	18458.0	19450.9	17282.4	14126.1	11197.3
70°	1415.6	1395.6	1455.6	1733.2	2358.5	6377.7	15796.8	17867.7	16727.2	12815.5	8941.4
72.5°	1022.9	1045.5	1140.5	1423.1	1850.8	3431.5	12040.2	14448.7	13971.0	9659.2	5682.4
75°	712.8	732.8	885.4	1160.5	1698.2	2080.9	8141.0	10479.5	9731.7	5332.3	2421.0
77.5°	372.7	397.7	565.2	927.9	1543.2	1610.7	4864.6	6645.4	5157.2	1898.3	667.8
80°	172.6	185.1	282.6	657.8	1290.6	1415.6	2836.2	3696.6	2063.4	425.2	230.1
82.5°	75.0	82.5	130.1	377.7	915.4	1238.0	1755.8	1938.3	747.8	137.6	142.6
85°	15.0	17.5	50.0	200.1	442.7	750.3	1233.0	1150.5	375.2	67.5	112.5
87.5°	0.0	0.0	12.5	57.5	120.1	222.6	522.7	522.7	115.0	35.0	42.5
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°	5337.3	5337.3	5337.3	5337.3	5337.3	5337.3	5337.3	5337.3	5337.3	5337.3	5337.3
2.5°	5339.8	5249.8	5052.2	4869.6	4739.5	4592.0	4396.9	4309.4	4276.8	4231.8	4164.3
5°	5199.7	5089.7	4752.0	4411.9	4039.2	3756.6	3456.5	3281.4	3148.9	3066.3	3038.8
7.5°	5002.2	4777.1	4321.9	3776.6	3293.9	2873.7	2418.5	2110.9	1913.3	1833.3	1758.3
10°	4844.6	4552.0	3859.2	3181.4	2538.6	1923.3	1410.6	1140.5	935.4	857.9	847.9
12.5°	4639.5	4289.3	3426.5	2573.6	1765.8	1145.5	780.3	677.8	620.3	610.3	602.8
15°	4469.4	4051.7	3016.3	1993.4	1143.0	715.3	607.8	582.8	567.7	562.7	565.2
17.5°	4354.4	3796.6	2596.1	1450.6	752.8	585.3	560.2	545.2	537.7	535.2	527.7
20°	4126.8	3581.5	2180.9	1015.4	587.8	540.2	520.2	507.7	500.2	497.7	495.2
22.5°	3996.7	3308.9	1765.8	707.8	522.7	490.2	475.2	465.2	452.7	445.2	442.7
25°	3866.7	3108.8	1395.6	550.2	475.2	452.7	430.2	417.7	397.7	387.7	385.2
27.5°	3714.1	2911.3	1075.5	477.7	427.7	405.2	382.7	362.7	337.6	327.6	322.6
30°	3626.6	2718.7	810.3	427.7	392.7	362.7	335.1	310.1	282.6	265.1	260.1
32.5°	3581.5	2543.6	607.8	390.2	355.2	322.6	287.6	257.6	232.6	217.6	215.1
35°	3526.5	2373.5	477.7	355.2	320.1	285.1	250.1	220.1	195.1	182.6	177.6
37.5°	3584.0	2273.5	397.7	327.6	292.6	252.6	215.1	185.1	165.1	152.6	150.1
40°	3741.6	2190.9	345.1	302.6	265.1	222.6	187.6	157.6	140.1	130.1	125.1
42.5°	3984.2	2190.9	312.6	277.6	240.1	195.1	160.1	137.6	120.1	110.0	107.5
45°	4424.4	2258.5	285.1	252.6	210.1	167.6	137.6	115.0	97.5	87.5	85.0
47.5°	5042.2	2413.5	262.6	230.1	187.6	147.6	120.1	97.5	80.0	70.0	67.5
50°	5872.5	2766.2	240.1	202.6	167.6	127.6	100.0	77.5	62.5	52.5	50.0
52.5°	6908.0	3266.4	217.6	187.6	142.6	107.5	80.0	62.5	47.5	40.0	37.5
55°	8003.4	3879.2	190.1	167.6	122.6	90.0	65.0	47.5	35.0	30.0	27.5
57.5°	9106.4	4351.9	167.6	145.1	100.0	72.5	52.5	37.5	25.0	20.0	17.5
60°	9691.7	4396.9	145.1	120.1	80.0	57.5	40.0	27.5	17.5	12.5	10.0
62.5°	9781.7	3996.7	125.1	97.5	65.0	45.0	27.5	20.0	10.0	5.0	5.0
65°	9319.0	3331.4	107.5	77.5	50.0	32.5	20.0	12.5	5.0	2.5	0.0
67°	8568.7	2791.2	92.5	65.0	40.0	25.0	15.0	7.5	2.5	0.0	0.0
67.5°	8278.6	2641.1	87.5	60.0	37.5	22.5	12.5	7.5	2.5	0.0	0.0
70°	6425.3	1885.8	65.0	42.5	27.5	17.5	10.0	5.0	0.0	0.0	0.0
72.5°	3936.7	1103.0	50.0	30.0	20.0	12.5	7.5	2.5	0.0	0.0	0.0
75°	1650.7	380.2	42.5	22.5	15.0	7.5	5.0	2.5	0.0	0.0	0.0
77.5°	430.2	142.6	30.0	15.0	10.0	7.5	5.0	2.5	0.0	0.0	0.0
80°	175.1	65.0	20.0	10.0	10.0	7.5	5.0	2.5	0.0	0.0	0.0
82.5°	115.0	30.0	12.5	10.0	7.5	5.0	2.5	0.0	0.0	0.0	0.0
85°	87.5	17.5	7.5	7.5	5.0	2.5	0.0	0.0	0.0	0.0	0.0
87.5°	37.5	10.0	7.5	5.0	5.0	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)