

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: P484382

Luminaire Tested: **IFLD-L-SA7A-735-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484382
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-735-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

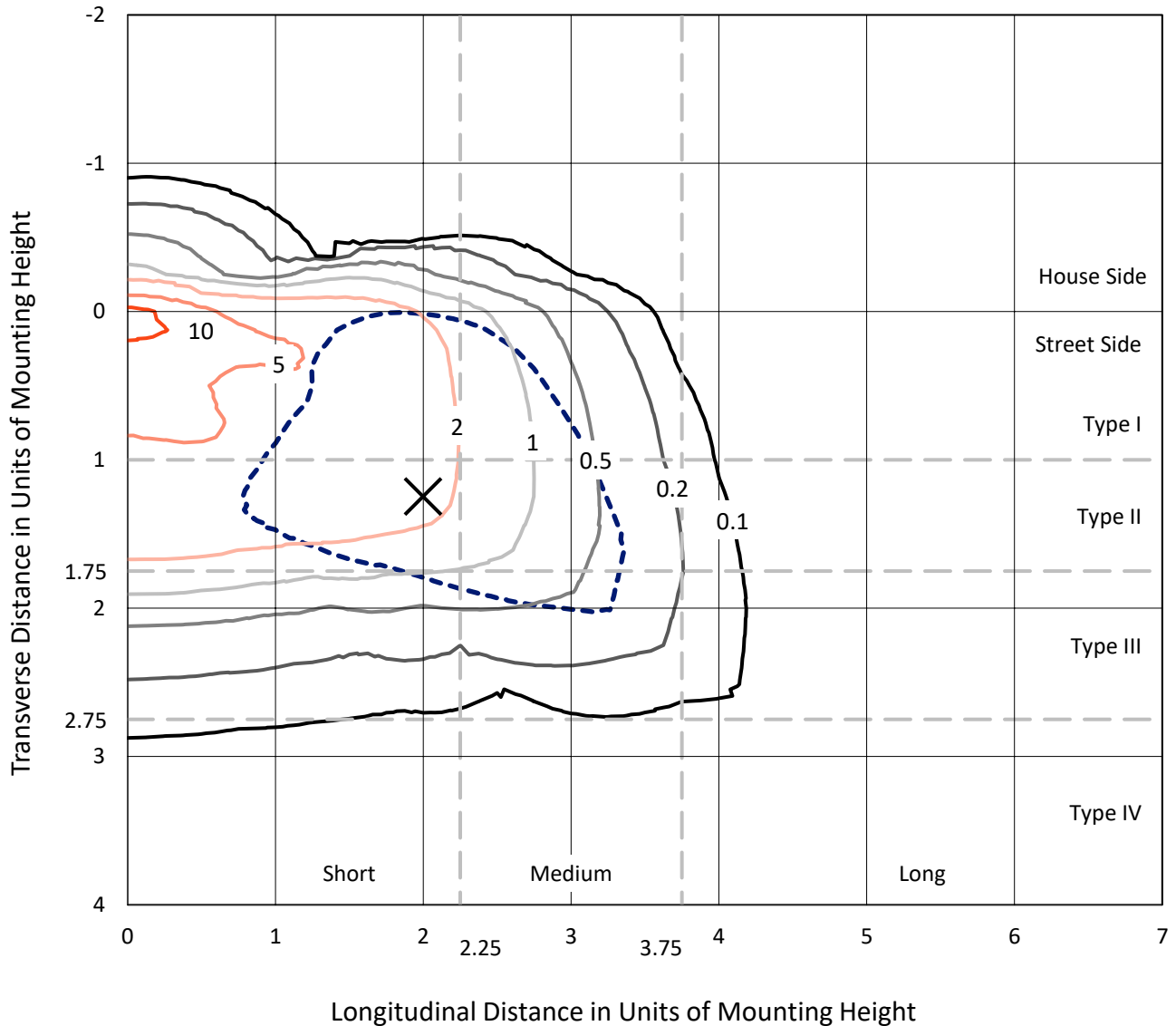
Lumens per Lamp: N/A
Luminaire Lumens: 25817.9 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 217.6
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

REPORT NUMBER: P484382
 CATALOG NUMBER: IFLD-L-SA7A-735-U-SL3-HSS

Iso-Footcandle Lines of Horizontal Illumination

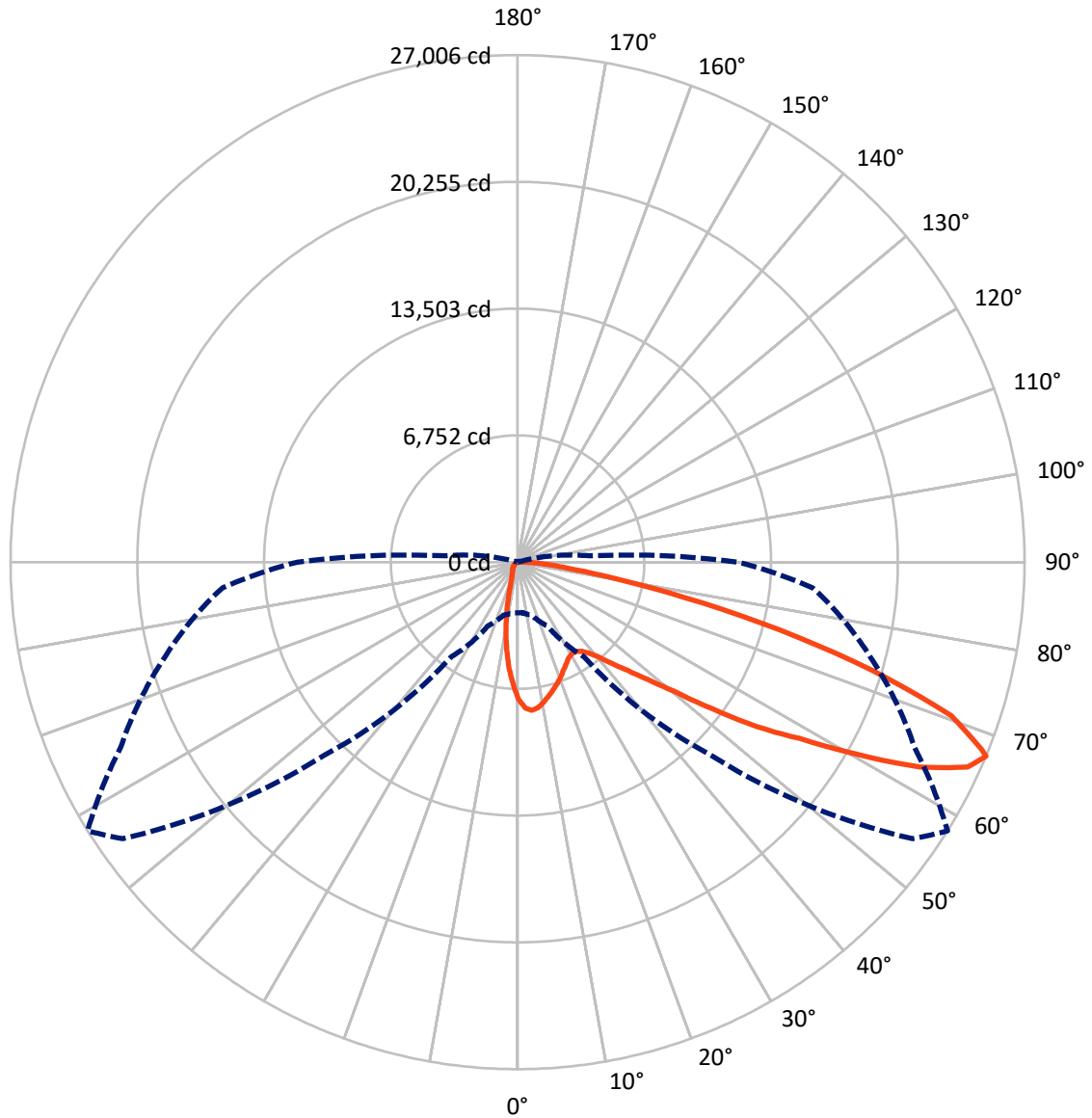
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc
 Type III - Short - N/A

REPORT NUMBER: P484382
CATALOG NUMBER: IFLD-L-SA7A-735-U-SL3-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P484382
 CATALOG NUMBER: IFLD-L-SA7A-735-U-SL3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2134.0	0.0	2134.0
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	23683.8	0.0	23683.8
	% Fixture	91.7	0.0	91.7
Total	Lumens	25817.9	0.0	25817.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	580.4	2.2
10°-20°	1203.8	4.7
20°-30°	1597.2	6.2
30°-40°	2213.2	8.6
40°-50°	3611.3	14.0
50°-60°	6347.5	24.6
60°-70°	7030.4	27.2
70°-80°	2913.4	11.3
80°-90°	320.7	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°	25817.9	100.0
0°-180°	25817.9	100.0



REPORT NUMBER: P484382

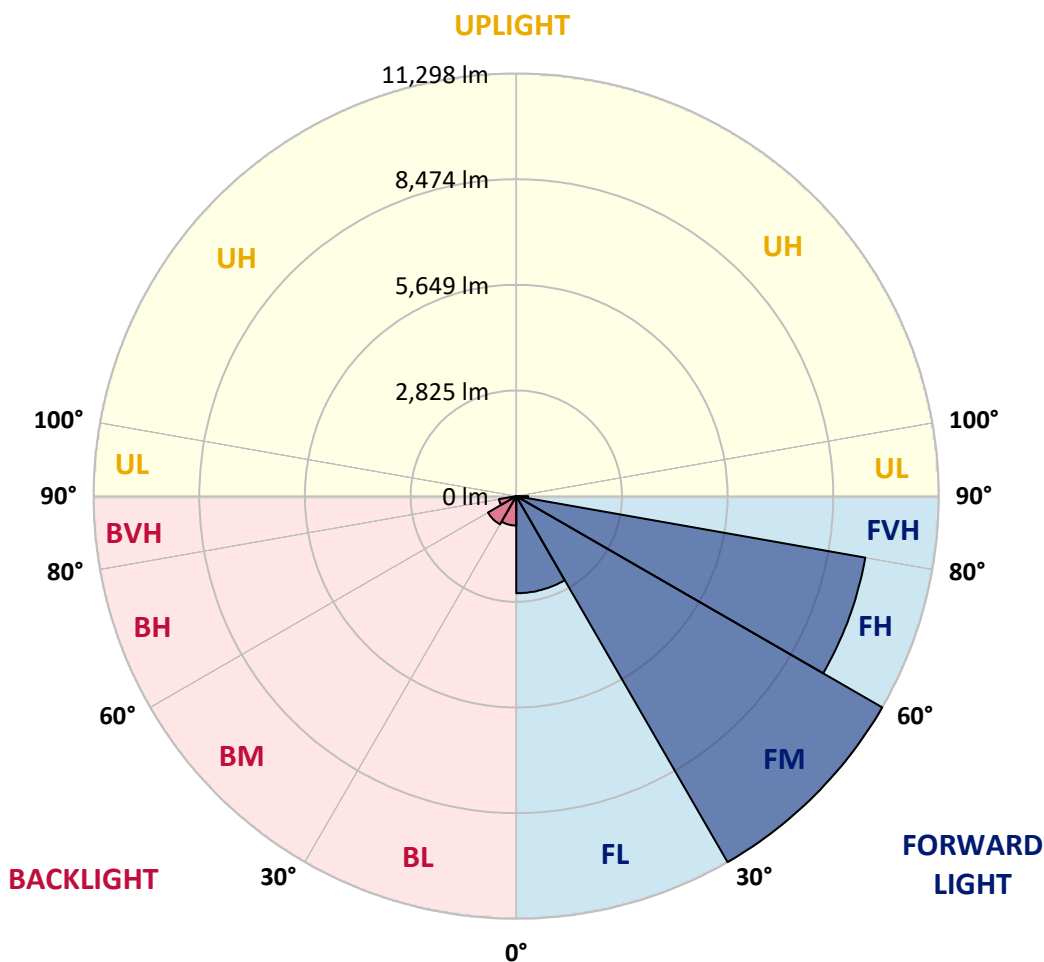
CATALOG NUMBER: IFLD-L-SA7A-735-U-SL3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2595.4	10.1			
FM	(30°-60°)	11298.4	43.8			
FH	(60°-80°)	9474.6	36.7			G4/12000
FVH	(80°-90°)	315.4	1.2			G3/500
BL	(0°-30°)	786.0	3.0	B2/1000		
BM	(30°-60°)	873.6	3.4	B1/1000		
BH	(60°-80°)	469.2	1.8	B1/500		G1/500
BVH	(80°-90°)	5.3	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 III Short





REPORT NUMBER: P484382

CATALOG NUMBER: IFLD-L-SA7A-735-U-SL3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	7314.6	7314.6	7314.6	7314.6	7314.6	7314.6	7314.6	7314.6	7314.6	7314.6	7314.6
2.5°	7958.9	7986.4	8010.4	7965.8	8003.5	7948.7	7808.1	7777.3	7753.3	7544.2	7424.2
5°	7955.5	7924.7	7948.7	7969.2	7917.8	7958.9	7924.7	7928.1	7835.6	7647.0	7311.1
7.5°	7424.2	7410.5	7424.2	7523.6	7636.7	7725.9	7777.3	7828.7	7767.0	7485.9	7160.3
10°	6707.9	6776.4	6814.1	6992.4	7167.2	7331.7	7492.8	7588.8	7571.6	7458.5	6995.8
12.5°	6207.4	6186.9	6324.0	6440.5	6615.3	6947.8	7228.9	7318.0	7420.8	7263.1	6779.8
15°	5744.7	5689.9	5772.1	5974.4	6272.6	6536.5	6930.7	7064.3	7194.6	7235.7	6663.3
17.5°	5302.5	5330.0	5415.6	5597.3	5878.4	6248.6	6618.7	6810.7	7122.6	7067.8	6488.5
20°	5090.0	5148.3	5179.1	5271.7	5467.1	5837.2	6389.1	6543.3	6875.8	7064.3	6317.1
22.5°	5100.3	5100.3	5028.3	5083.2	5261.4	5549.3	6077.2	6248.6	6776.4	6886.1	6162.9
25°	5210.0	5141.4	5144.9	5079.7	5155.1	5312.8	5796.1	6005.2	6574.2	6903.2	6080.6
27.5°	5292.3	5278.5	5258.0	5240.8	5144.9	5168.9	5611.0	5782.4	6495.3	6882.7	5953.8
30°	5590.5	5528.8	5508.2	5470.5	5343.7	5227.1	5463.6	5679.6	6433.7	6930.7	5881.8
32.5°	5840.7	5851.0	5868.1	5758.4	5648.7	5360.8	5504.8	5676.1	6389.1	7040.3	5953.8
35°	6156.0	6200.6	6207.4	6173.2	6056.6	5772.1	5676.1	5823.5	6464.5	7235.7	5960.6
37.5°	6635.9	6587.9	6718.1	6731.9	6649.6	6272.6	6073.8	6132.0	6687.3	7547.6	6221.1
40°	6947.8	7006.1	7249.4	7400.2	7259.7	6916.9	6649.6	6639.3	7009.5	8037.8	6543.3
42.5°	7294.0	7424.2	7691.6	8017.2	8000.1	7681.3	7410.5	7366.0	7581.9	8747.3	7054.1
45°	7767.0	7883.5	8257.1	8747.3	9014.7	8743.9	8336.0	8246.9	8277.7	9713.9	7924.7
47.5°	8551.9	8521.1	9059.2	9542.5	9981.2	9772.2	9597.4	9336.9	9312.9	10851.9	9127.8
50°	9439.7	9432.8	9912.7	10461.1	10968.4	11376.3	11084.9	10800.4	10807.3	12397.7	10543.4
52.5°	10282.9	10416.6	10934.1	11479.1	12349.7	12788.5	13069.5	12956.4	12411.4	13779.1	12058.4
55°	10728.5	10845.0	11359.1	12298.3	13672.8	14800.5	15561.4	15465.4	14413.2	15335.2	13552.8
57.5°	10306.9	10385.7	11081.5	12312.0	14598.3	17114.1	17844.2	17724.2	16483.4	16524.6	15359.2
60°	8541.6	8665.0	9700.2	11143.2	14238.4	18896.5	20987.3	20805.7	18368.6	18029.3	16521.2
62.5°	5916.1	5998.3	6848.4	8644.5	12531.4	19516.9	23955.7	24055.1	20356.7	19201.6	16867.3
65°	3832.1	3825.2	4312.0	5528.8	8881.0	17638.6	25710.6	26327.6	22276.1	19379.8	16761.1
67°	2707.8	2697.5	2927.2	3749.8	6149.2	14533.1	25679.8	27006.3	23318.1	19431.2	15777.4
67.5°	2498.7	2488.5	2707.8	3448.2	5549.3	13515.1	25295.9	26656.6	23684.9	19359.2	15345.5
70°	1940.0	1912.6	1994.9	2375.3	3232.3	8740.4	21648.9	24487.0	22924.0	17563.2	12253.8
72.5°	1401.9	1432.7	1563.0	1950.3	2536.4	4702.7	16500.6	19801.4	19146.7	13237.5	7787.6
75°	976.9	1004.3	1213.4	1590.4	2327.4	2851.8	11156.9	14361.7	13336.9	7307.7	3317.9
77.5°	510.7	545.0	774.6	1271.6	2114.8	2207.4	6666.7	9107.2	7067.8	2601.6	915.2
80°	236.5	253.6	387.3	901.5	1768.7	1940.0	3886.9	5066.0	2827.8	582.7	315.3
82.5°	102.8	113.1	178.2	517.6	1254.5	1696.7	2406.2	2656.4	1024.9	188.5	195.4
85°	20.6	24.0	68.6	274.2	606.7	1028.3	1689.8	1576.7	514.1	92.5	154.2
87.5°	0.0	0.0	17.1	78.8	164.5	305.1	716.4	716.4	157.7	48.0	58.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P484382

CATALOG NUMBER: IFLD-L-SA7A-735-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7314.6	7314.6	7314.6	7314.6	7314.6	7314.6	7314.6	7314.6	7314.6	7314.6	7314.6
2.5°	7318.0	7194.6	6923.8	6673.6	6495.3	6293.1	6025.8	5905.8	5861.2	5799.5	5707.0
5°	7126.0	6975.2	6512.5	6046.3	5535.6	5148.3	4737.0	4497.0	4315.4	4202.3	4164.6
7.5°	6855.3	6546.8	5922.9	5175.7	4514.2	3938.3	3314.5	2892.9	2622.1	2512.4	2409.6
10°	6639.3	6238.3	5288.8	4359.9	3479.0	2635.8	1933.2	1563.0	1281.9	1175.7	1162.0
12.5°	6358.2	5878.4	4695.8	3527.0	2419.9	1569.9	1069.4	928.9	850.1	836.3	826.1
15°	6125.2	5552.8	4133.7	2731.8	1566.4	980.3	832.9	798.6	778.1	771.2	774.6
17.5°	5967.5	5203.1	3557.9	1988.0	1031.7	802.1	767.8	747.2	736.9	733.5	723.2
20°	5655.6	4908.4	2988.9	1391.6	805.5	740.4	712.9	695.8	685.5	682.1	678.7
22.5°	5477.3	4534.7	2419.9	970.0	716.4	671.8	651.2	637.5	620.4	610.1	606.7
25°	5299.1	4260.5	1912.6	754.1	651.2	620.4	589.6	572.4	545.0	531.3	527.9
27.5°	5090.0	3989.8	1473.9	654.7	586.1	555.3	524.4	497.0	462.7	449.0	442.2
30°	4970.1	3725.8	1110.6	586.1	538.1	497.0	459.3	425.0	387.3	363.3	356.5
32.5°	4908.4	3485.9	832.9	534.7	486.7	442.2	394.2	353.0	318.8	298.2	294.8
35°	4833.0	3252.8	654.7	486.7	438.7	390.7	342.8	301.6	267.4	250.2	243.4
37.5°	4911.8	3115.7	545.0	449.0	401.0	346.2	294.8	253.6	226.2	209.1	205.7
40°	5127.7	3002.6	473.0	414.7	363.3	305.1	257.1	215.9	191.9	178.2	171.4
42.5°	5460.2	3002.6	428.5	380.5	329.1	267.4	219.4	188.5	164.5	150.8	147.4
45°	6063.5	3095.1	390.7	346.2	287.9	229.7	188.5	157.7	133.7	120.0	116.5
47.5°	6910.1	3307.7	359.9	315.3	257.1	202.2	164.5	133.7	109.7	96.0	92.5
50°	8048.1	3791.0	329.1	277.6	229.7	174.8	137.1	106.3	85.7	72.0	68.6
52.5°	9467.1	4476.5	298.2	257.1	195.4	147.4	109.7	85.7	65.1	54.8	51.4
55°	10968.4	5316.2	260.5	229.7	168.0	123.4	89.1	65.1	48.0	41.1	37.7
57.5°	12480.0	5964.1	229.7	198.8	137.1	99.4	72.0	51.4	34.3	27.4	24.0
60°	13282.0	6025.8	198.8	164.5	109.7	78.8	54.8	37.7	24.0	17.1	13.7
62.5°	13405.4	5477.3	171.4	133.7	89.1	61.7	37.7	27.4	13.7	6.9	6.9
65°	12771.3	4565.6	147.4	106.3	68.6	44.6	27.4	17.1	6.9	3.4	0.0
67°	11743.0	3825.2	126.8	89.1	54.8	34.3	20.6	10.3	3.4	0.0	0.0
67.5°	11345.4	3619.6	120.0	82.3	51.4	30.8	17.1	10.3	3.4	0.0	0.0
70°	8805.6	2584.4	89.1	58.3	37.7	24.0	13.7	6.9	0.0	0.0	0.0
72.5°	5395.1	1511.6	68.6	41.1	27.4	17.1	10.3	3.4	0.0	0.0	0.0
75°	2262.2	521.0	58.3	30.8	20.6	10.3	6.9	3.4	0.0	0.0	0.0
77.5°	589.6	195.4	41.1	20.6	13.7	10.3	6.9	3.4	0.0	0.0	0.0
80°	239.9	89.1	27.4	13.7	13.7	10.3	6.9	3.4	0.0	0.0	0.0
82.5°	157.7	41.1	17.1	13.7	10.3	6.9	3.4	0.0	0.0	0.0	0.0
85°	120.0	24.0	10.3	10.3	6.9	3.4	0.0	0.0	0.0	0.0	0.0
87.5°	51.4	13.7	10.3	6.9	6.9	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)