

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: P484653

Luminaire Tested: **IFLD-M-SA4D-722-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484653
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-722-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

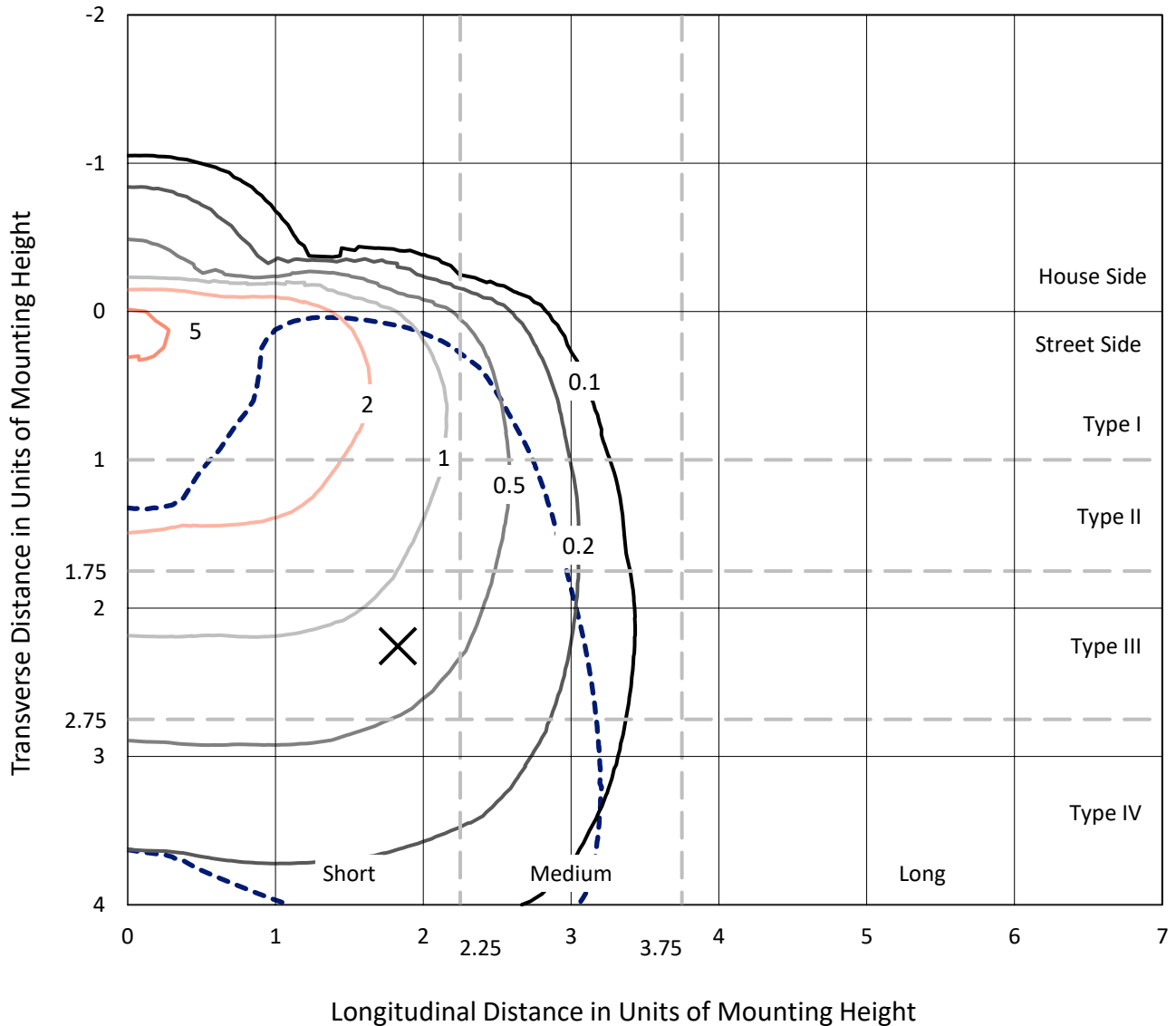
Lumens per Lamp: N/A
Luminaire Lumens: 19036.9 lumens
Efficiency: N/A
Efficacy: 76.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G4

Input Watts (W): 249.7
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: P484653
 CATALOG NUMBER: IFLD-M-SA4D-722-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

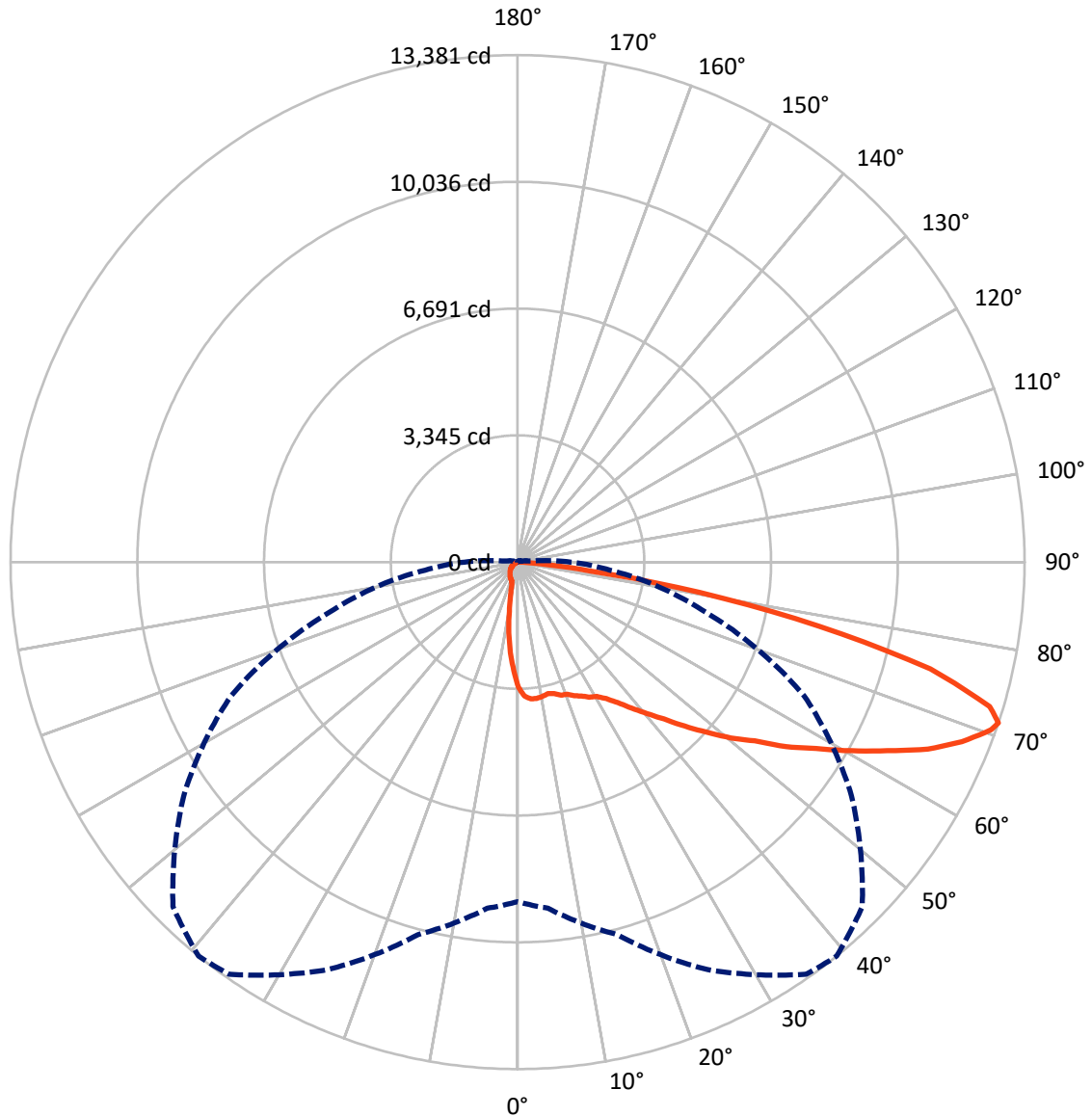
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type IV - Short - N/A

REPORT NUMBER: P484653
CATALOG NUMBER: IFLD-M-SA4D-722-U-SL4-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P484653
 CATALOG NUMBER: IFLD-M-SA4D-722-U-SL4-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1433.2	0.0	1433.2
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	17603.7	0.0	17603.7
	% Fixture	92.5	0.0	92.5
Total	Lumens	19036.9	0.0	19036.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.0	1.5
10°-20°	681.9	3.6
20°-30°	1094.6	5.7
30°-40°	1675.6	8.8
40°-50°	2689.6	14.1
50°-60°	3950.6	20.8
60°-70°	4975.7	26.1
70°-80°	3320.7	17.4
80°-90°	371.1	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°	19036.9	100.0
0°-180°	19036.9	100.0

Coefficient of Utilization



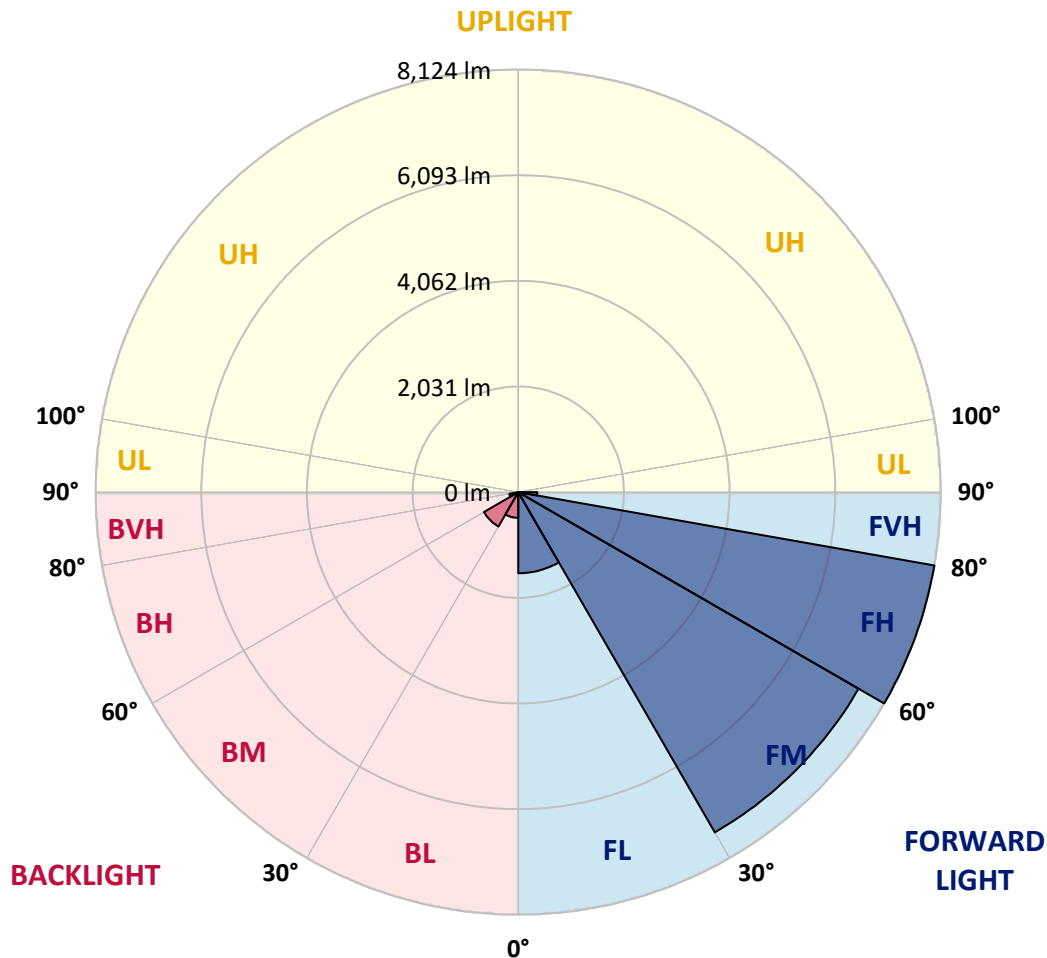
REPORT NUMBER: P484653
 CATALOG NUMBER: IFLD-M-SA4D-722-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1558.7	8.2			
FM (30°-60°)	7554.1	39.7			
FH (60°-80°)	8123.8	42.7			G4/12000
FVH (80°-90°)	367.0	1.9			G3/500
BL (0°-30°)	494.8	2.6	B1/500		
BM (30°-60°)	761.8	4.0	B1/1000		
BH (60°-80°)	172.5	0.9	B1/500		G1/500
BVH (80°-90°)	4.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4

Type IV Short





REPORT NUMBER: P484653

CATALOG NUMBER: IFLD-M-SA4D-722-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3313.5	3313.5	3313.5	3313.5	3313.5	3313.5	3313.5	3313.5	3313.5	3313.5	3313.5
2.5°	3570.7	3605.6	3570.7	3555.7	3540.7	3543.2	3503.3	3510.7	3463.3	3400.9	3350.9
5°	3683.0	3730.5	3693.0	3675.5	3673.0	3625.6	3605.6	3558.2	3500.8	3403.4	3343.4
7.5°	3673.0	3663.1	3680.5	3665.6	3633.1	3633.1	3610.6	3543.2	3485.8	3375.9	3273.5
10°	3598.1	3628.1	3613.1	3595.6	3603.1	3605.6	3563.2	3515.7	3498.3	3388.4	3221.1
12.5°	3590.6	3540.7	3595.6	3598.1	3565.7	3563.2	3558.2	3545.7	3490.8	3390.9	3233.6
15°	3565.7	3545.7	3600.6	3603.1	3610.6	3603.1	3610.6	3600.6	3545.7	3488.3	3288.5
17.5°	3585.7	3563.2	3640.6	3678.0	3660.6	3695.5	3683.0	3638.1	3590.6	3523.2	3340.9
20°	3590.6	3623.1	3708.0	3723.0	3777.9	3720.5	3718.0	3670.6	3640.6	3568.2	3373.4
22.5°	3683.0	3698.0	3802.9	3835.4	3837.8	3830.4	3767.9	3713.0	3700.5	3610.6	3380.9
25°	3822.9	3875.3	3922.7	3942.7	3950.2	3915.3	3850.3	3780.4	3750.5	3693.0	3458.3
27.5°	4070.1	4037.6	4080.1	4110.0	4025.1	4037.6	3955.2	3895.3	3852.8	3802.9	3548.2
30°	4289.8	4259.8	4262.3	4257.3	4184.9	4117.5	4095.0	3990.2	3937.7	3957.7	3688.0
32.5°	4487.1	4422.1	4477.1	4452.1	4317.3	4297.3	4279.8	4147.5	4157.5	4249.8	3897.8
35°	4669.3	4646.9	4691.8	4646.9	4557.0	4552.0	4534.5	4419.6	4474.6	4606.9	4257.3
37.5°	4836.6	4844.1	4899.1	4876.6	4884.1	4889.1	4879.1	4756.7	4914.0	5211.2	4676.8
40°	4991.4	4981.5	5116.3	5186.2	5201.2	5256.1	5256.1	5226.2	5468.4	5803.0	5258.6
42.5°	5156.2	5181.2	5356.0	5473.4	5615.7	5663.1	5728.1	5743.0	6117.6	6499.6	5852.9
45°	5425.9	5383.5	5605.7	5882.9	6007.7	6175.0	6274.9	6359.8	6811.7	7336.1	6447.2
47.5°	5768.0	5683.1	5877.9	6279.9	6569.5	6706.9	6886.7	6999.0	7441.0	7982.8	7009.0
50°	6147.5	6060.2	6155.0	6709.4	7046.5	7296.2	7525.9	7668.2	8202.6	8706.9	7418.5
52.5°	6577.0	6497.1	6512.1	7156.3	7653.2	7835.5	8137.6	8349.9	8881.7	9143.9	7563.3
55°	7034.0	7014.0	6966.6	7593.3	8185.1	8594.6	8776.9	9031.6	9578.4	9381.1	7720.6
57.5°	7493.4	7431.0	7498.4	8172.6	9039.0	9283.7	9535.9	9688.3	9965.4	9588.4	7660.7
60°	7925.4	7930.4	8025.3	8801.8	9765.7	10112.7	10340.0	10247.6	10362.4	9678.3	7523.4
62.5°	8290.0	8280.0	8519.7	9508.5	10727.0	10961.7	11131.5	10719.5	10547.2	9765.7	7283.7
65°	8617.1	8729.4	9106.5	10350.0	11630.9	11900.6	11798.2	11166.5	10727.0	9508.5	6609.5
67.5°	8864.3	9031.6	9685.8	11141.5	12459.9	12649.7	12507.3	11506.1	10514.8	8499.7	5383.5
70°	9009.1	9178.9	10100.3	11800.7	13121.6	13258.9	12924.3	11243.9	9276.3	6155.0	3358.4
71°	8964.1	9171.4	10180.2	11870.6	13278.9	13381.3	12861.9	10759.5	8342.4	5153.8	2449.5
72.5°	8557.1	8751.9	9848.1	11820.7	13089.1	13026.7	12375.0	9595.9	6567.0	3286.0	1266.0
75°	6287.4	6497.1	8452.3	10225.1	11683.3	11253.9	10015.4	6734.3	3425.8	1006.3	369.6
77.5°	3131.2	3166.2	5246.1	7423.5	8569.6	8142.6	6711.9	3755.4	1280.9	297.1	184.8
80°	1443.3	1453.2	1967.6	3845.3	5181.2	4876.6	3760.4	1852.8	579.3	157.3	144.8
82.5°	983.8	998.8	1186.1	1593.1	2249.8	1897.7	1523.2	1186.1	332.1	94.9	142.3
85°	179.8	164.8	664.2	844.0	868.9	589.3	526.9	1026.3	124.8	54.9	124.8
87.5°	0.0	2.5	92.4	344.6	309.6	137.3	179.8	249.7	12.5	17.5	22.5
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: P484653

CATALOG NUMBER: IFLD-M-SA4D-722-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3313.5	3313.5	3313.5	3313.5	3313.5	3313.5	3313.5	3313.5	3313.5	3313.5	3313.5
2.5°	3308.5	3281.0	3188.6	3086.3	2993.9	2921.5	2829.1	2786.6	2719.2	2681.7	2679.3
5°	3261.0	3186.1	3026.3	2854.0	2661.8	2502.0	2324.7	2224.8	2109.9	2075.0	2067.5
7.5°	3181.1	3073.8	2839.1	2596.9	2302.2	2020.1	1802.8	1570.6	1428.3	1368.3	1345.9
10°	3131.2	3001.4	2681.7	2319.7	1907.7	1510.7	1206.0	958.8	829.0	766.6	751.6
12.5°	3131.2	2991.4	2554.4	2055.0	1508.2	1033.7	746.6	604.3	561.8	546.8	546.8
15°	3123.7	2971.4	2432.1	1782.8	1116.1	694.2	556.8	526.9	521.9	519.4	516.9
17.5°	3161.2	2936.4	2307.2	1490.7	789.0	546.8	511.9	506.9	501.9	501.9	496.9
20°	3188.6	2916.5	2157.4	1181.1	589.3	506.9	491.9	484.4	481.9	479.4	484.4
22.5°	3166.2	2886.5	1972.6	883.9	514.4	481.9	471.9	464.4	459.4	459.4	461.9
25°	3208.6	2859.0	1787.8	666.7	481.9	459.4	449.5	444.5	442.0	439.5	434.5
27.5°	3266.0	2871.5	1568.1	536.8	454.4	437.0	427.0	422.0	419.5	414.5	419.5
30°	3336.0	2869.0	1325.9	469.4	429.5	412.0	402.0	399.5	394.5	392.0	394.5
32.5°	3455.8	2933.9	1076.2	434.5	402.0	387.0	377.0	374.5	372.0	369.6	367.1
35°	3713.0	3013.8	841.5	407.0	377.0	359.6	352.1	347.1	344.6	342.1	339.6
37.5°	4030.1	3191.1	641.7	382.0	352.1	334.6	327.1	324.6	314.6	312.1	309.6
40°	4427.1	3380.9	494.4	354.6	329.6	312.1	304.6	297.1	284.7	279.7	274.7
42.5°	4921.5	3565.7	407.0	329.6	304.6	292.1	279.7	267.2	257.2	247.2	242.2
45°	5415.9	3780.4	357.1	307.1	284.7	269.7	259.7	242.2	224.7	209.7	207.2
47.5°	5827.9	3857.8	327.1	282.2	264.7	252.2	237.2	214.7	189.8	174.8	172.3
50°	6135.1	3812.9	297.1	257.2	242.2	229.7	209.7	182.3	157.3	142.3	137.3
52.5°	6195.0	3615.6	269.7	237.2	219.7	204.8	182.3	152.3	124.8	109.9	107.4
55°	6152.5	3288.5	247.2	219.7	199.8	177.3	152.3	122.4	97.4	82.4	79.9
57.5°	6065.1	2901.5	222.2	197.3	174.8	152.3	124.8	99.9	72.4	57.4	57.4
60°	5768.0	2374.6	197.3	172.3	149.8	129.8	102.4	72.4	49.9	37.5	35.0
62.5°	5353.5	1825.3	172.3	147.3	129.8	107.4	79.9	52.4	30.0	20.0	20.0
65°	4596.9	1278.5	144.8	122.4	107.4	87.4	59.9	32.5	17.5	7.5	7.5
67.5°	3493.3	791.5	119.9	102.4	92.4	69.9	42.4	20.0	7.5	2.5	0.0
70°	2005.1	412.0	94.9	82.4	72.4	52.4	30.0	10.0	5.0	0.0	0.0
71°	1400.8	304.6	84.9	72.4	64.9	47.4	25.0	7.5	2.5	0.0	0.0
72.5°	701.6	202.3	72.4	59.9	52.4	37.5	20.0	7.5	2.5	0.0	0.0
75°	249.7	129.8	49.9	40.0	37.5	27.5	12.5	5.0	2.5	0.0	0.0
77.5°	172.3	104.9	35.0	25.0	25.0	17.5	7.5	2.5	2.5	0.0	0.0
80°	157.3	57.4	22.5	15.0	12.5	10.0	5.0	2.5	0.0	0.0	0.0
82.5°	157.3	42.4	12.5	10.0	7.5	5.0	2.5	0.0	0.0	0.0	0.0
85°	109.9	22.5	7.5	7.5	5.0	2.5	0.0	0.0	0.0	0.0	0.0
87.5°	17.5	7.5	5.0	2.5	2.5	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)