

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: P482396

Luminaire Tested: **IFLD-L-SA7D-730-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482396
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-730-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

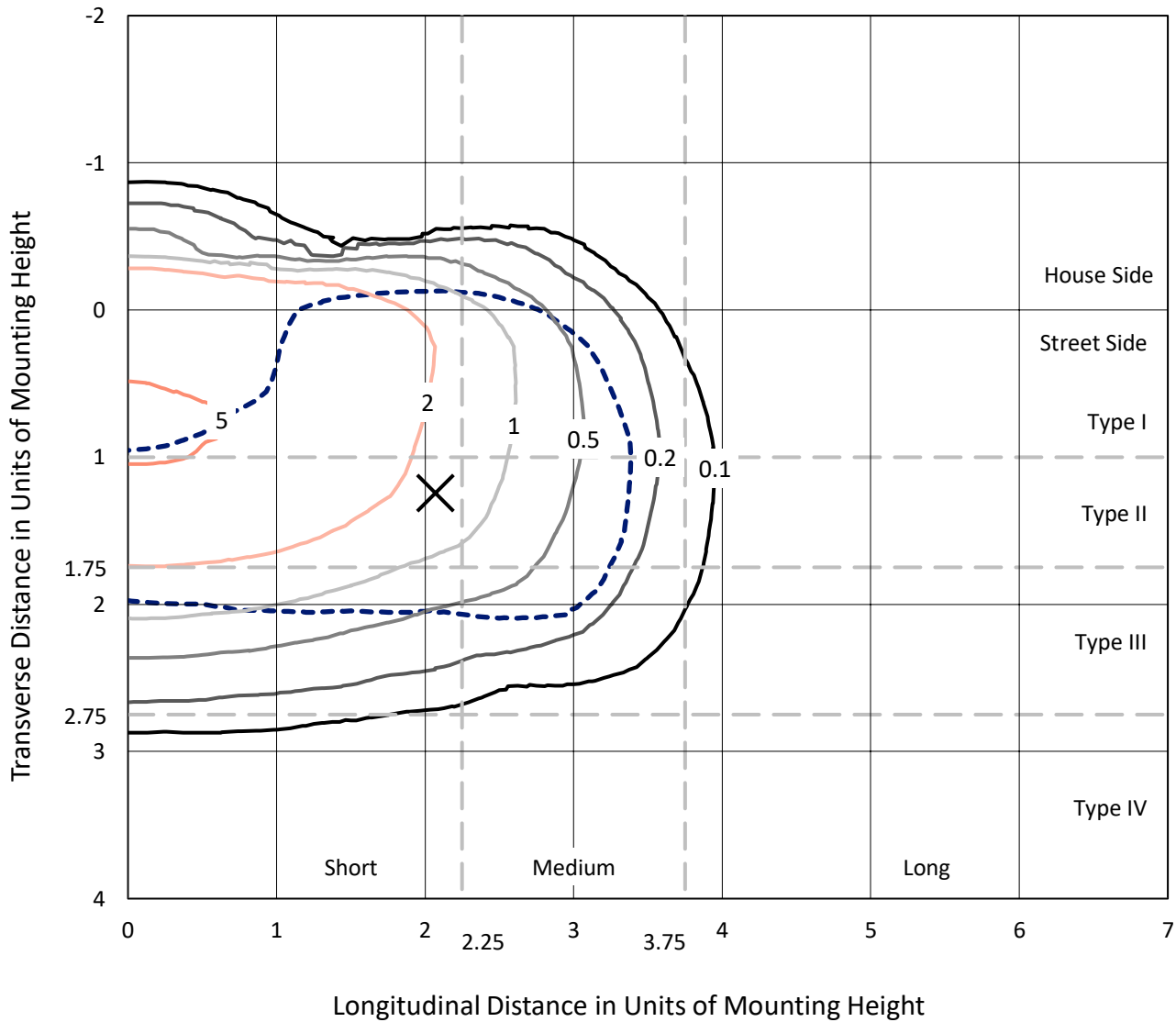
Lumens per Lamp: N/A
Luminaire Lumens: 32959.4 lumens
Efficiency: N/A
Efficacy: 78.0 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 422.6
Input Voltage (V): 120
Input Current (A_{in}): 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: P482396
 CATALOG NUMBER: IFLD-L-SA7D-730-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

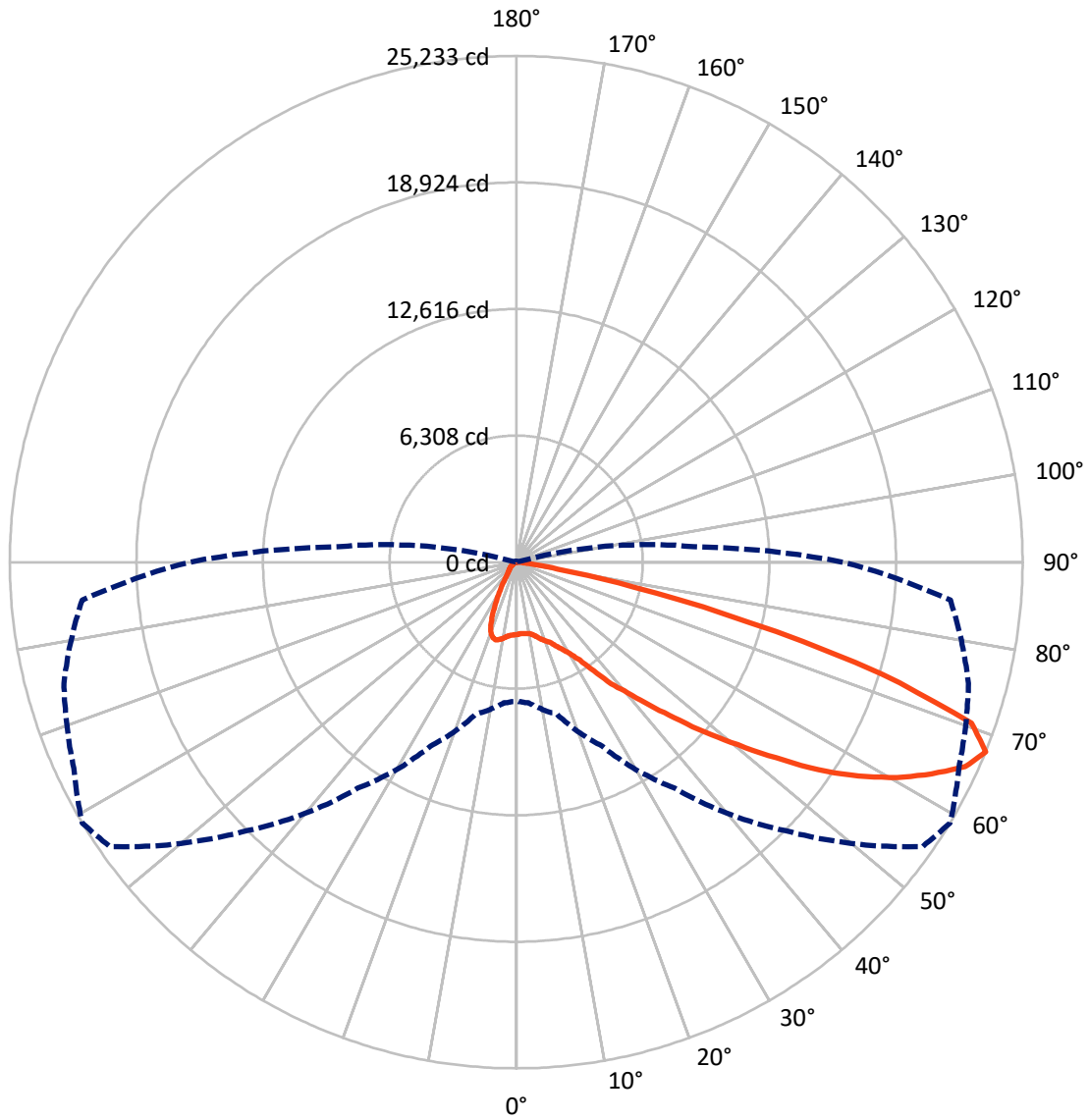
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.7 fc
 Type III - Short - N/A

REPORT NUMBER: P482396
CATALOG NUMBER: IFLD-L-SA7D-730-U-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P482396
 CATALOG NUMBER: IFLD-L-SA7D-730-U-T3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3871.6	0.0	3871.6
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	29087.8	0.0	29087.8
	% Fixture	88.3	0.0	88.3
Total	Lumens	32959.4	0.0	32959.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	343.4	1.0
10°-20°	991.9	3.0
20°-30°	1733.6	5.3
30°-40°	3052.3	9.3
40°-50°	5395.4	16.4
50°-60°	8542.9	25.9
60°-70°	9476.4	28.8
70°-80°	3288.1	10.0
80°-90°	135.4	0.4
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°	32959.4	100.0
0°-180°	32959.4	100.0

Coefficient of Utilization

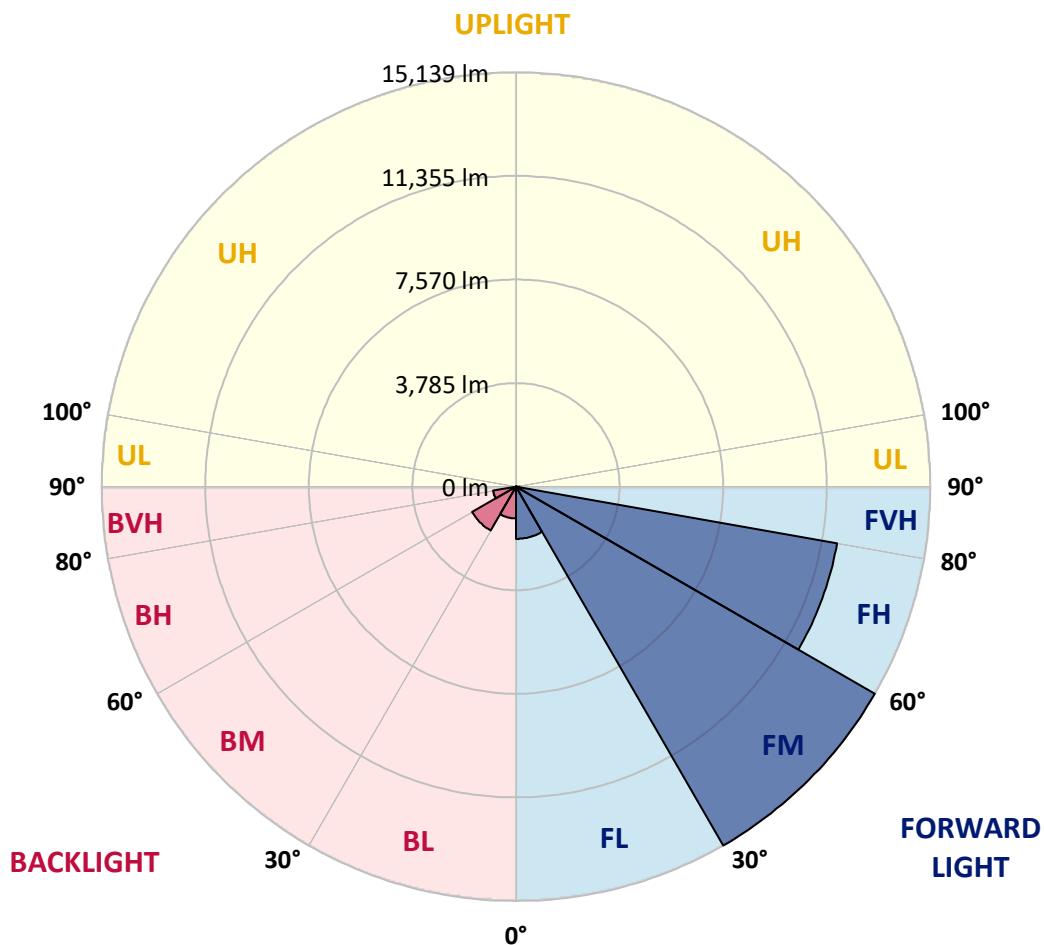


REPORT NUMBER: P482396
 CATALOG NUMBER: IFLD-L-SA7D-730-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1908.6	5.8			
FM (30°-60°)	15139.5	45.9			
FH (60°-80°)	11913.0	36.1			G4/12000
FVH (80°-90°)	126.6	0.4			G2/225
BL (0°-30°)	1160.4	3.5	B3/2500		
BM (30°-60°)	1851.1	5.6	B2/2500		
BH (60°-80°)	851.4	2.6	B2/1000		G2/1000
BVH (80°-90°)	8.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Short





REPORT NUMBER: P482396

CATALOG NUMBER: IFLD-L-SA7D-730-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	3615.1	3615.1	3615.1	3615.1	3615.1	3615.1	3615.1	3615.1	3615.1	3615.1	3615.1
2.5°	3510.3	3460.3	3505.8	3510.3	3514.9	3555.9	3601.4	3569.5	3565.0	3601.4	3633.3
5°	3369.2	3346.4	3401.1	3428.4	3473.9	3510.3	3583.2	3587.7	3592.3	3633.3	3687.9
7.5°	3310.0	3255.4	3319.1	3351.0	3382.9	3469.4	3555.9	3601.4	3665.1	3715.2	3769.9
10°	3191.6	3232.6	3250.8	3305.5	3396.5	3496.7	3601.4	3624.2	3765.3	3806.3	3938.3
12.5°	3232.6	3259.9	3296.3	3310.0	3410.2	3560.4	3701.6	3710.7	3856.4	4033.9	4102.2
15°	3337.3	3319.1	3332.8	3351.0	3469.4	3592.3	3819.9	3860.9	3997.5	4197.8	4366.3
17.5°	3560.4	3528.5	3505.8	3501.2	3528.5	3642.4	3911.0	4033.9	4161.4	4434.6	4521.1
20°	4120.4	4093.1	4002.1	3765.3	3683.3	3728.9	4020.3	4193.3	4370.8	4675.9	4817.0
22.5°	4971.8	4999.2	4785.2	4452.8	4111.3	3933.8	4193.3	4343.5	4625.8	5012.8	5140.3
25°	5978.0	5923.4	5663.9	5276.9	4739.6	4320.8	4471.0	4639.5	4985.5	5304.2	5354.3
27.5°	6765.7	6702.0	6501.6	6032.7	5568.3	4889.9	4835.2	4940.0	5349.7	5636.6	5581.9
30°	7544.3	7567.0	7430.4	6875.0	6301.3	5586.5	5240.5	5286.0	5600.1	5968.9	5846.0
32.5°	8536.8	8482.2	8404.8	7917.6	7239.2	6474.3	5882.4	5809.6	5946.2	6433.3	6287.6
35°	9461.1	9429.2	9324.5	8832.8	8240.9	7407.7	6829.4	6665.5	6633.7	7175.5	6920.5
37.5°	10266.9	10212.3	10052.9	9738.8	9165.1	8464.0	7831.1	7685.4	7680.9	8054.2	7562.5
40°	10945.3	10986.3	10968.1	10622.1	10307.9	9747.9	8778.1	8545.9	8527.7	8728.0	8441.2
42.5°	11824.0	11919.7	11869.6	11801.3	11423.4	11204.8	10107.6	9752.5	9593.1	10002.9	9743.3
45°	13153.5	13189.9	13221.8	13053.3	12675.5	12721.0	11482.6	11059.2	11018.2	11628.3	11045.5
47.5°	14396.5	14300.9	14524.0	14533.1	14514.9	14305.4	12966.8	12652.7	12707.3	13171.7	12570.7
50°	14706.1	14951.9	15566.6	15680.4	15976.4	16167.6	14615.0	14300.9	14391.9	14920.1	14232.6
52.5°	14947.4	15320.7	15935.4	16768.6	17565.3	18020.6	16459.0	16204.0	16199.4	16522.7	15575.7
55°	15370.8	15598.5	16131.2	17278.5	18794.6	19541.3	18680.8	18271.0	17902.3	18129.9	16968.9
57.5°	15329.8	15416.3	16245.0	17661.0	19769.0	21125.8	20506.6	20115.0	19641.5	19509.5	18571.5
60°	14610.5	14815.3	15744.2	17401.4	20370.0	22359.6	22209.4	21808.7	20993.7	20684.1	19800.8
62.5°	13185.4	13458.6	14187.0	16490.8	19495.8	22423.4	23384.0	23233.8	22323.2	21767.7	21403.5
65°	10685.8	10813.3	11651.0	14177.9	17519.8	21444.5	24772.7	24586.0	23748.3	22919.6	22227.6
67.5°	6920.5	7043.4	7849.3	10121.2	13759.1	18917.6	24718.0	25232.5	24326.5	23329.4	21713.1
70°	3269.0	3237.2	3988.4	5622.9	8814.5	14446.6	23047.1	24062.4	23293.0	21148.5	18034.3
72.5°	997.1	1083.6	1657.3	2490.5	4525.6	9010.3	18066.2	19017.7	18776.4	16896.1	12038.0
75°	441.6	478.1	651.1	1019.9	1834.8	3697.0	11159.3	12006.2	11901.4	9966.4	5495.4
77.5°	282.3	309.6	409.8	582.8	833.2	1174.7	5140.3	5964.4	5782.3	3501.2	1438.7
80°	200.3	214.0	291.4	400.7	523.6	482.6	1771.1	2103.5	2017.0	951.6	387.0
82.5°	109.3	118.4	214.0	295.9	350.6	245.9	496.3	619.2	646.5	423.4	186.7
85°	41.0	50.1	132.0	209.4	182.1	113.8	145.7	177.6	232.2	232.2	86.5
87.5°	0.0	4.6	54.6	91.1	45.5	31.9	41.0	50.1	63.7	109.3	31.9
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: P482396
 CATALOG NUMBER: IFLD-L-SA7D-730-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3615.1	3615.1	3615.1	3615.1	3615.1	3615.1	3615.1	3615.1	3615.1	3615.1	3615.1
2.5°	3656.0	3624.2	3637.8	3660.6	3610.5	3637.8	3583.2	3624.2	3637.8	3583.2	3610.5
5°	3701.6	3733.4	3715.2	3678.8	3646.9	3656.0	3642.4	3610.5	3637.8	3646.9	3628.7
7.5°	3833.6	3797.2	3806.3	3765.3	3701.6	3697.0	3610.5	3587.7	3596.8	3605.9	3574.1
10°	3956.5	3979.3	3933.8	3901.9	3797.2	3728.9	3610.5	3483.0	3469.4	3414.7	3460.3
12.5°	4175.1	4120.4	4102.2	3997.5	3892.8	3665.1	3410.2	3214.4	3050.5	2991.3	2932.1
15°	4357.2	4348.1	4316.2	4156.9	3915.5	3501.2	3018.6	2563.3	2249.2	2053.4	2026.1
17.5°	4607.6	4566.6	4507.4	4257.0	3747.1	3073.3	2249.2	1675.5	1361.3	1238.4	1192.9
20°	4798.8	4767.0	4685.0	4234.3	3442.0	2290.1	1393.2	1065.4	988.0	965.2	969.8
22.5°	5076.6	4976.4	4821.6	4120.4	2886.6	1525.2	1001.7	951.6	937.9	919.7	924.3
25°	5317.9	5226.8	4903.5	3924.7	2057.9	1010.8	928.8	901.5	878.7	856.0	851.4
27.5°	5531.9	5418.0	4990.0	3524.0	1288.5	869.6	860.5	828.6	783.1	746.7	733.0
30°	5741.3	5609.3	5012.8	2772.8	869.6	787.7	764.9	714.8	655.6	605.5	596.4
32.5°	6091.9	5932.5	4980.9	1980.5	751.2	701.2	651.1	591.9	505.4	464.4	455.3
35°	6638.2	6396.9	4940.0	1165.6	673.8	619.2	541.8	464.4	400.7	359.7	350.6
37.5°	7266.5	6847.7	4821.6	778.6	619.2	546.4	446.2	368.8	314.2	282.3	273.2
40°	8199.9	7507.8	4366.3	637.4	550.9	464.4	359.7	291.4	250.4	227.6	218.5
42.5°	9228.9	8263.6	3665.1	573.7	487.2	396.1	286.8	236.8	204.9	182.1	182.1
45°	10462.7	9051.3	2827.4	523.6	432.5	327.8	236.8	191.2	163.9	145.7	136.6
47.5°	11837.7	9766.1	1907.7	473.5	364.2	268.6	195.8	145.7	118.4	104.7	104.7
50°	13067.0	10399.0	1215.6	414.3	318.7	223.1	159.4	118.4	95.6	77.4	72.8
52.5°	14182.5	10881.6	837.7	364.2	273.2	182.1	132.0	95.6	72.8	59.2	59.2
55°	15325.3	11127.4	619.2	314.2	236.8	154.8	109.3	86.5	63.7	50.1	45.5
57.5°	16263.2	11232.2	473.5	273.2	200.3	122.9	95.6	72.8	54.6	41.0	36.4
60°	17064.5	11182.1	368.8	227.6	159.4	104.7	82.0	59.2	45.5	31.9	27.3
62.5°	17533.5	10881.6	291.4	195.8	127.5	91.1	68.3	50.1	31.9	22.8	18.2
65°	17542.6	10244.2	227.6	145.7	95.6	77.4	59.2	41.0	22.8	9.1	4.6
67.5°	16286.0	8864.6	182.1	113.8	77.4	59.2	45.5	31.9	9.1	0.0	0.0
70°	12739.2	6706.5	150.2	91.1	63.7	50.1	31.9	18.2	4.6	0.0	0.0
72.5°	8117.9	4015.7	122.9	72.8	54.6	36.4	22.8	13.7	0.0	0.0	0.0
75°	3396.5	1238.4	95.6	63.7	41.0	27.3	18.2	4.6	0.0	0.0	0.0
77.5°	874.2	391.6	77.4	54.6	41.0	22.8	13.7	4.6	0.0	0.0	0.0
80°	259.5	145.7	63.7	45.5	31.9	18.2	9.1	4.6	0.0	0.0	0.0
82.5°	118.4	86.5	54.6	41.0	27.3	18.2	9.1	0.0	0.0	0.0	0.0
85°	45.5	27.3	27.3	22.8	22.8	13.7	4.6	0.0	0.0	0.0	0.0
87.5°	18.2	9.1	9.1	9.1	4.6	4.6	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)