

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: P484919

Luminaire Tested: **IFLD-S-SA6B-827-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484919
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-827-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (96) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

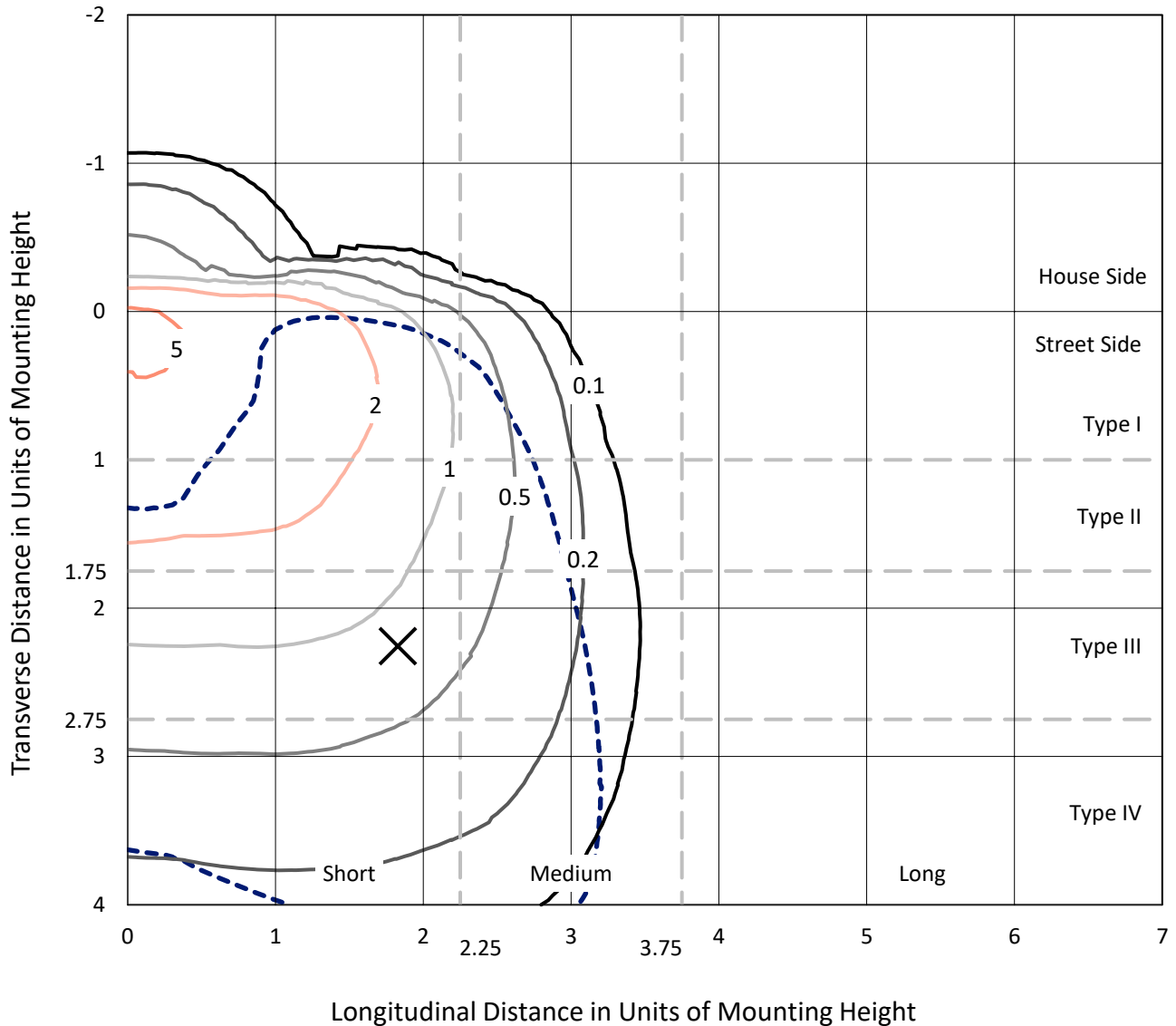
Lumens per Lamp: N/A
Luminaire Lumens: 20270.8 lumens
Efficiency: N/A
Efficacy: 82.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 244.9
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: P484919
 CATALOG NUMBER: IFLD-S-SA6B-827-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

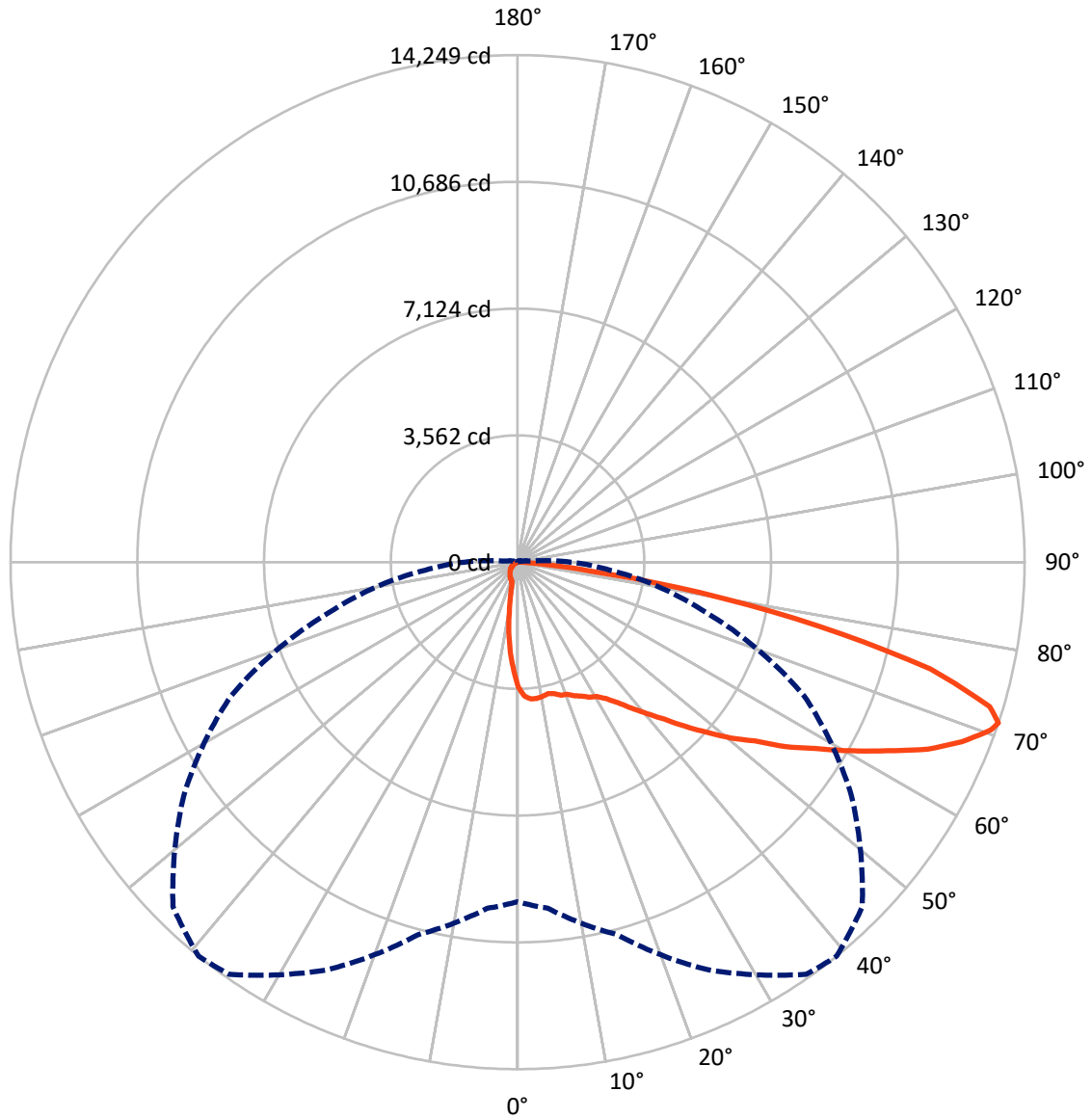
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P484919
CATALOG NUMBER: IFLD-S-SA6B-827-U-SL4-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P484919
 CATALOG NUMBER: IFLD-S-SA6B-827-U-SL4-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1526.1	0.0	1526.1
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	18744.7	0.0	18744.7
	% Fixture	92.5	0.0	92.5
Total	Lumens	20270.8	0.0	20270.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.0	1.5
10°-20°	726.1	3.6
20°-30°	1165.6	5.8
30°-40°	1784.2	8.8
40°-50°	2864.0	14.1
50°-60°	4206.7	20.8
60°-70°	5298.2	26.1
70°-80°	3535.9	17.4
80°-90°	395.2	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°	20270.8	100.0
0°-180°	20270.8	100.0

Coefficient of Utilization



REPORT NUMBER: P484919

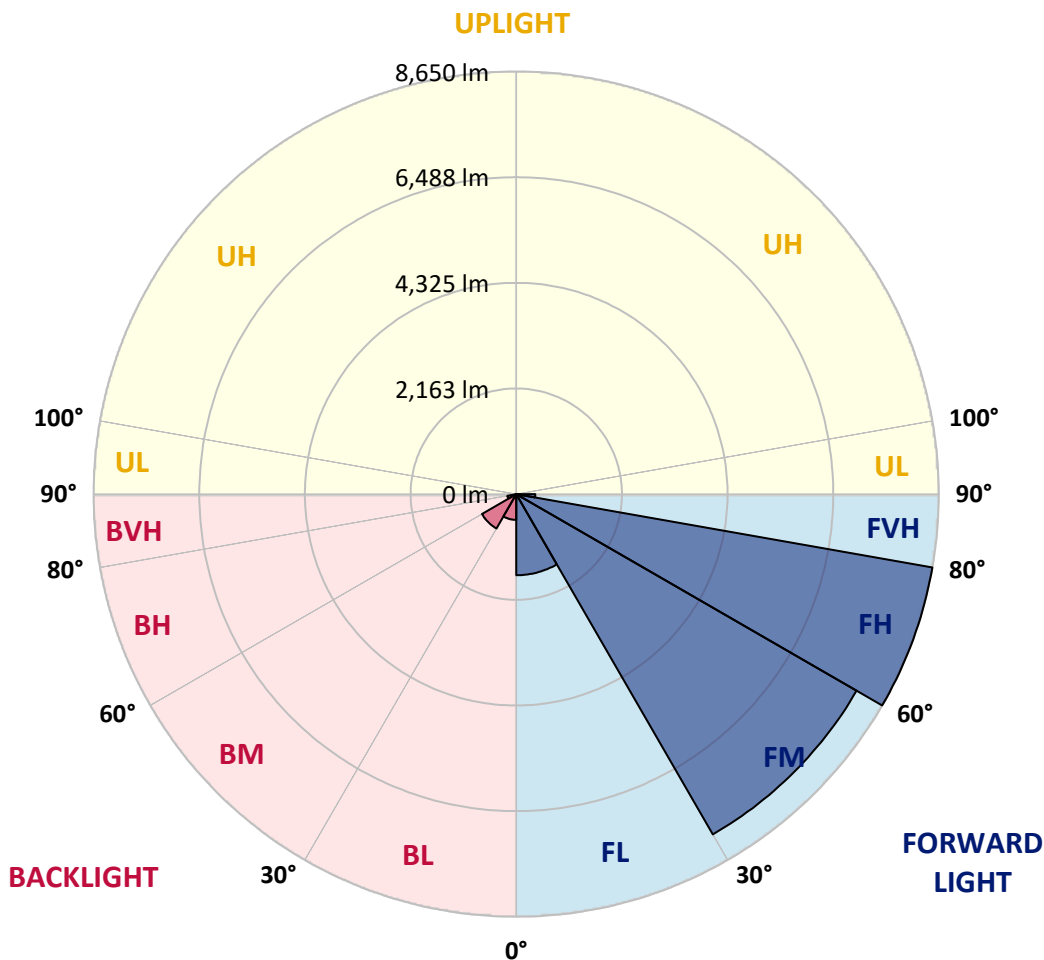
CATALOG NUMBER: IFLD-S-SA6B-827-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1659.8	8.2			
FM (30°-60°)	8043.7	39.7			
FH (60°-80°)	8650.4	42.7			G4/12000
FVH (80°-90°)	390.8	1.9			G3/500
BL (0°-30°)	526.9	2.6	B2/1000		
BM (30°-60°)	811.2	4.0	B1/1000		
BH (60°-80°)	183.7	0.9	B1/500		G1/500
BVH (80°-90°)	4.4	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 IV Short





REPORT NUMBER: P484919

CATALOG NUMBER: IFLD-S-SA6B-827-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3528.3	3528.3	3528.3	3528.3	3528.3	3528.3	3528.3	3528.3	3528.3	3528.3	3528.3
2.5°	3802.1	3839.3	3802.1	3786.2	3770.2	3772.9	3730.3	3738.3	3687.8	3621.3	3568.1
5°	3921.8	3972.3	3932.4	3913.8	3911.1	3860.6	3839.3	3788.8	3727.7	3624.0	3560.2
7.5°	3911.1	3900.5	3919.1	3903.2	3868.6	3868.6	3844.7	3772.9	3711.7	3594.7	3485.7
10°	3831.4	3863.3	3847.3	3828.7	3836.7	3839.3	3794.1	3743.6	3725.0	3608.0	3429.9
12.5°	3823.4	3770.2	3828.7	3831.4	3796.8	3794.1	3788.8	3775.5	3717.0	3610.7	3443.2
15°	3796.8	3775.5	3834.0	3836.7	3844.7	3836.7	3844.7	3834.0	3775.5	3714.4	3501.7
17.5°	3818.1	3794.1	3876.6	3916.4	3897.8	3935.1	3921.8	3873.9	3823.4	3751.6	3557.5
20°	3823.4	3858.0	3948.4	3964.3	4022.8	3961.6	3959.0	3908.5	3876.6	3799.5	3592.1
22.5°	3921.8	3937.7	4049.4	4084.0	4086.6	4078.6	4012.2	3953.7	3940.4	3844.7	3600.0
25°	4070.7	4126.5	4177.0	4198.3	4206.3	4169.0	4099.9	4025.5	3993.6	3932.4	3682.5
27.5°	4333.9	4299.3	4344.5	4376.4	4286.0	4299.3	4211.6	4147.8	4102.6	4049.4	3778.2
30°	4567.9	4536.0	4538.6	4533.3	4456.2	4384.4	4360.5	4248.8	4193.0	4214.2	3927.1
32.5°	4777.9	4708.8	4767.3	4740.7	4597.1	4575.8	4557.2	4416.3	4426.9	4525.3	4150.4
35°	4972.0	4948.1	4995.9	4948.1	4852.4	4847.0	4828.4	4706.1	4764.6	4905.5	4533.3
37.5°	5150.1	5158.1	5216.6	5192.7	5200.7	5206.0	5195.3	5065.1	5232.6	5549.0	4980.0
40°	5315.0	5304.4	5447.9	5522.4	5538.3	5596.8	5596.8	5564.9	5822.8	6179.1	5599.5
42.5°	5490.5	5517.1	5703.2	5828.1	5979.7	6030.2	6099.3	6115.3	6514.1	6920.9	6232.3
45°	5777.6	5732.4	5969.1	6264.2	6397.1	6575.3	6681.6	6772.0	7253.3	7811.6	6865.1
47.5°	6141.9	6051.5	6258.9	6686.9	6995.4	7141.6	7333.0	7452.7	7923.3	8500.3	7463.3
50°	6546.0	6453.0	6554.0	7144.3	7503.2	7769.1	8013.7	8165.2	8734.2	9271.3	7899.4
52.5°	7003.3	6918.3	6934.2	7620.2	8149.3	8343.4	8665.1	8891.1	9457.4	9736.6	8053.6
55°	7489.9	7468.6	7418.1	8085.5	8715.6	9151.7	9345.8	9617.0	10199.2	9989.2	8221.1
57.5°	7979.1	7912.7	7984.4	8702.3	9624.9	9885.5	10154.0	10316.2	10611.4	10209.9	8157.3
60°	8439.1	8444.4	8545.5	9372.3	10398.7	10768.2	11010.2	10911.8	11034.1	10305.6	8011.0
62.5°	8827.3	8816.7	9071.9	10124.8	11422.3	11672.2	11853.0	11414.3	11230.9	10398.7	7755.8
65°	9175.6	9295.2	9696.7	11020.8	12384.8	12671.9	12562.9	11890.3	11422.3	10124.8	7037.9
67.5°	9438.8	9617.0	10313.6	11863.7	13267.5	13469.6	13318.0	12251.9	11196.3	9050.6	5732.4
70°	9593.0	9773.8	10754.9	12565.6	13972.1	14118.3	13762.1	11972.7	9877.5	6554.0	3576.1
71°	9545.2	9765.9	10840.0	12640.0	14139.6	14248.6	13695.6	11456.9	8883.1	5487.8	2608.3
72.5°	9111.8	9319.2	10486.4	12586.9	13937.5	13871.1	13177.1	10217.9	6992.7	3499.0	1348.0
75°	6694.9	6918.3	9000.1	10887.9	12440.6	11983.3	10664.5	7170.8	3647.9	1071.5	393.5
77.5°	3334.2	3371.4	5586.2	7904.7	9125.1	8670.4	7146.9	3998.9	1364.0	316.4	196.8
80°	1536.8	1547.4	2095.2	4094.6	5517.1	5192.7	4004.2	1972.8	616.8	167.5	154.2
82.5°	1047.6	1063.5	1262.9	1696.3	2395.6	2020.7	1621.9	1262.9	353.6	101.0	151.6
85°	191.4	175.5	707.2	898.7	925.3	627.5	561.0	1092.8	132.9	58.5	132.9
87.5°	0.0	2.7	98.4	366.9	329.7	146.2	191.4	265.9	13.3	18.6	23.9
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: P484919

CATALOG NUMBER: IFLD-S-SA6B-827-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3528.3	3528.3	3528.3	3528.3	3528.3	3528.3	3528.3	3528.3	3528.3	3528.3	3528.3
2.5°	3522.9	3493.7	3395.3	3286.3	3187.9	3110.8	3012.4	2967.2	2895.5	2855.6	2852.9
5°	3472.4	3392.7	3222.5	3039.0	2834.3	2664.1	2475.4	2369.0	2246.7	2209.5	2201.5
7.5°	3387.3	3273.0	3023.1	2765.2	2451.4	2151.0	1919.7	1672.4	1520.8	1457.0	1433.1
10°	3334.2	3195.9	2855.6	2470.0	2031.3	1608.6	1284.2	1021.0	882.7	816.3	800.3
12.5°	3334.2	3185.3	2720.0	2188.2	1605.9	1100.8	795.0	643.4	598.2	582.3	582.3
15°	3326.2	3164.0	2589.7	1898.4	1188.5	739.2	592.9	561.0	555.7	553.0	550.4
17.5°	3366.1	3126.8	2456.8	1587.3	840.2	582.3	545.1	539.7	534.4	534.4	529.1
20°	3395.3	3105.5	2297.2	1257.6	627.5	539.7	523.8	515.8	513.2	510.5	515.8
22.5°	3371.4	3073.6	2100.5	941.2	547.7	513.2	502.5	494.5	489.2	489.2	491.9
25°	3416.6	3044.4	1903.7	709.9	513.2	489.2	478.6	473.3	470.6	468.0	462.6
27.5°	3477.7	3057.6	1669.7	571.6	483.9	465.3	454.7	449.3	446.7	441.4	446.7
30°	3552.2	3055.0	1411.8	499.9	457.3	438.7	428.1	425.4	420.1	417.4	420.1
32.5°	3679.8	3124.1	1146.0	462.6	428.1	412.1	401.5	398.8	396.2	393.5	390.8
35°	3953.7	3209.2	896.0	433.4	401.5	382.9	374.9	369.6	366.9	364.3	361.6
37.5°	4291.3	3398.0	683.3	406.8	374.9	356.3	348.3	345.6	335.0	332.4	329.7
40°	4714.1	3600.0	526.4	377.6	351.0	332.4	324.4	316.4	303.1	297.8	292.5
42.5°	5240.5	3796.8	433.4	351.0	324.4	311.1	297.8	284.5	273.9	263.2	257.9
45°	5767.0	4025.5	380.2	327.0	303.1	287.2	276.5	257.9	239.3	223.3	220.7
47.5°	6205.7	4107.9	348.3	300.4	281.8	268.5	252.6	228.7	202.1	186.1	183.5
50°	6532.7	4060.0	316.4	273.9	257.9	244.6	223.3	194.1	167.5	151.6	146.2
52.5°	6596.5	3850.0	287.2	252.6	234.0	218.0	194.1	162.2	132.9	117.0	114.3
55°	6551.3	3501.7	263.2	234.0	212.7	188.8	162.2	130.3	103.7	87.7	85.1
57.5°	6458.3	3089.6	236.6	210.0	186.1	162.2	132.9	106.4	77.1	61.2	61.2
60°	6141.9	2528.5	210.0	183.5	159.5	138.3	109.0	77.1	53.2	39.9	37.2
62.5°	5700.5	1943.6	183.5	156.9	138.3	114.3	85.1	55.8	31.9	21.3	21.3
65°	4894.9	1361.3	154.2	130.3	114.3	93.1	63.8	34.6	18.6	8.0	8.0
67.5°	3719.7	842.8	127.6	109.0	98.4	74.4	45.2	21.3	8.0	2.7	0.0
70°	2135.0	438.7	101.0	87.7	77.1	55.8	31.9	10.6	5.3	0.0	0.0
71°	1491.6	324.4	90.4	77.1	69.1	50.5	26.6	8.0	2.7	0.0	0.0
72.5°	747.1	215.4	77.1	63.8	55.8	39.9	21.3	8.0	2.7	0.0	0.0
75°	265.9	138.3	53.2	42.5	39.9	29.2	13.3	5.3	2.7	0.0	0.0
77.5°	183.5	111.7	37.2	26.6	26.6	18.6	8.0	2.7	2.7	0.0	0.0
80°	167.5	61.2	23.9	16.0	13.3	10.6	5.3	2.7	0.0	0.0	0.0
82.5°	167.5	45.2	13.3	10.6	8.0	5.3	2.7	0.0	0.0	0.0	0.0
85°	117.0	23.9	8.0	8.0	5.3	2.7	0.0	0.0	0.0	0.0	0.0
87.5°	18.6	8.0	5.3	2.7	2.7	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)