

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: P484373

Luminaire Tested: **IFLD-S-SA6B-735-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484373
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-735-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (96) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

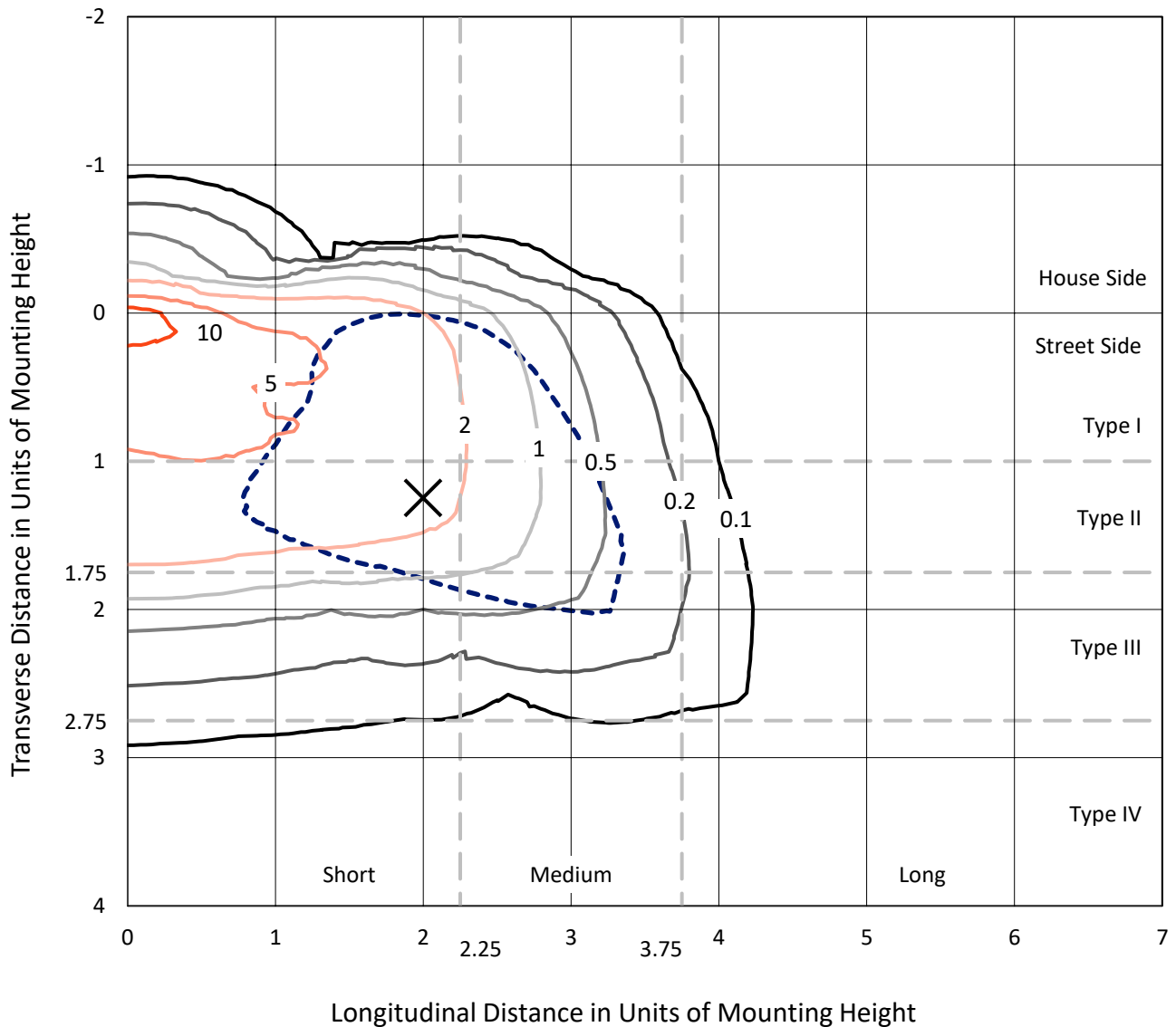
Lumens per Lamp: N/A
Luminaire Lumens: 27532.8 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 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: P484373
 CATALOG NUMBER: IFLD-S-SA6B-735-U-SL3-HSS

Iso-Footcandle Lines of Horizontal Illumination

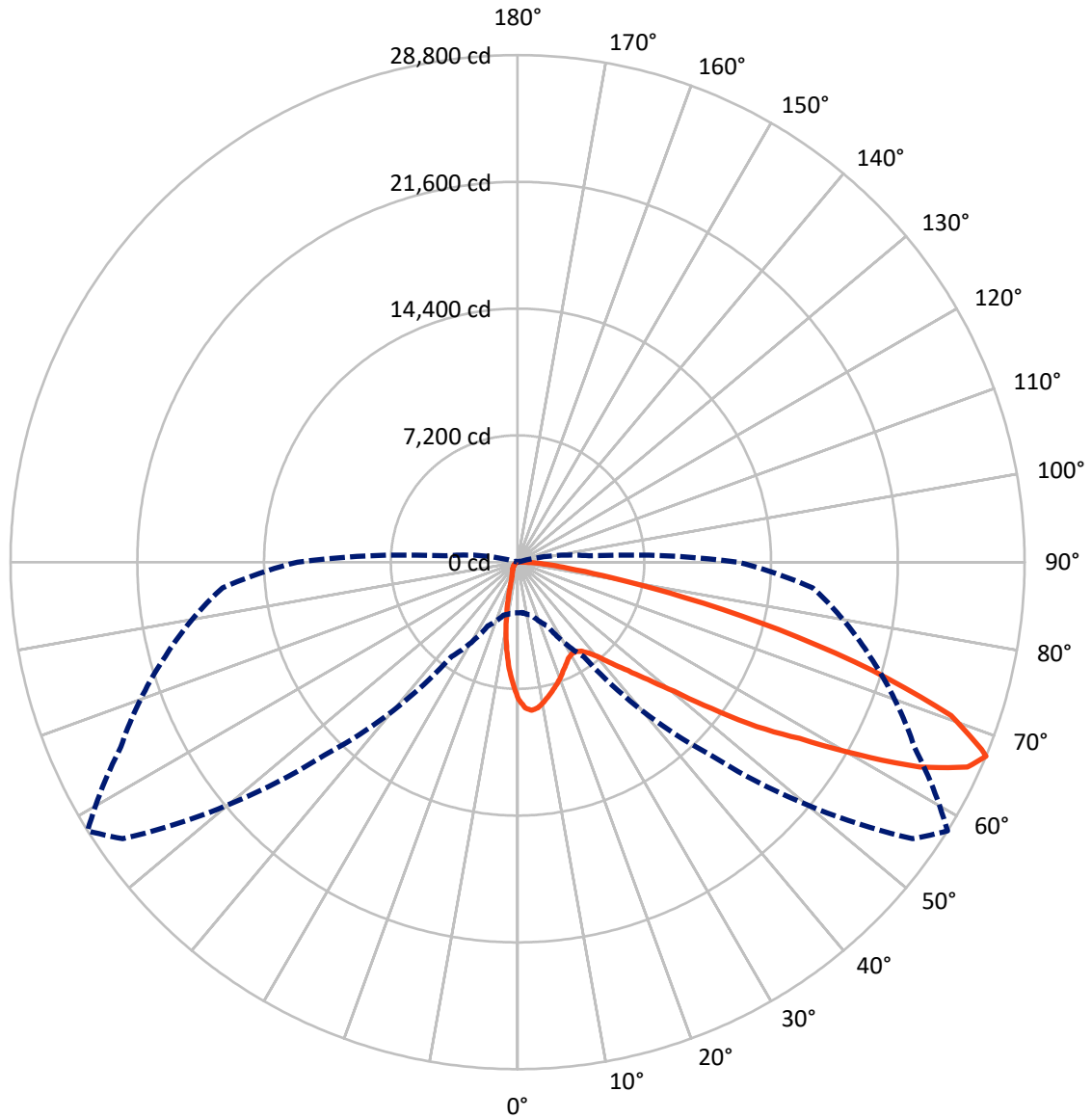
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 fc
 Type III - Short - N/A

REPORT NUMBER: P484373
CATALOG NUMBER: IFLD-S-SA6B-735-U-SL3-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P484373
 CATALOG NUMBER: IFLD-S-SA6B-735-U-SL3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2275.8	0.0	2275.8
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	25257.0	0.0	25257.0
	% Fixture	91.7	0.0	91.7
Total	Lumens	27532.8	0.0	27532.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	618.9	2.2
10°-20°	1283.8	4.7
20°-30°	1703.3	6.2
30°-40°	2360.2	8.6
40°-50°	3851.2	14.0
50°-60°	6769.1	24.6
60°-70°	7497.4	27.2
70°-80°	3106.9	11.3
80°-90°	342.0	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°	27532.8	100.0
0°-180°	27532.8	100.0



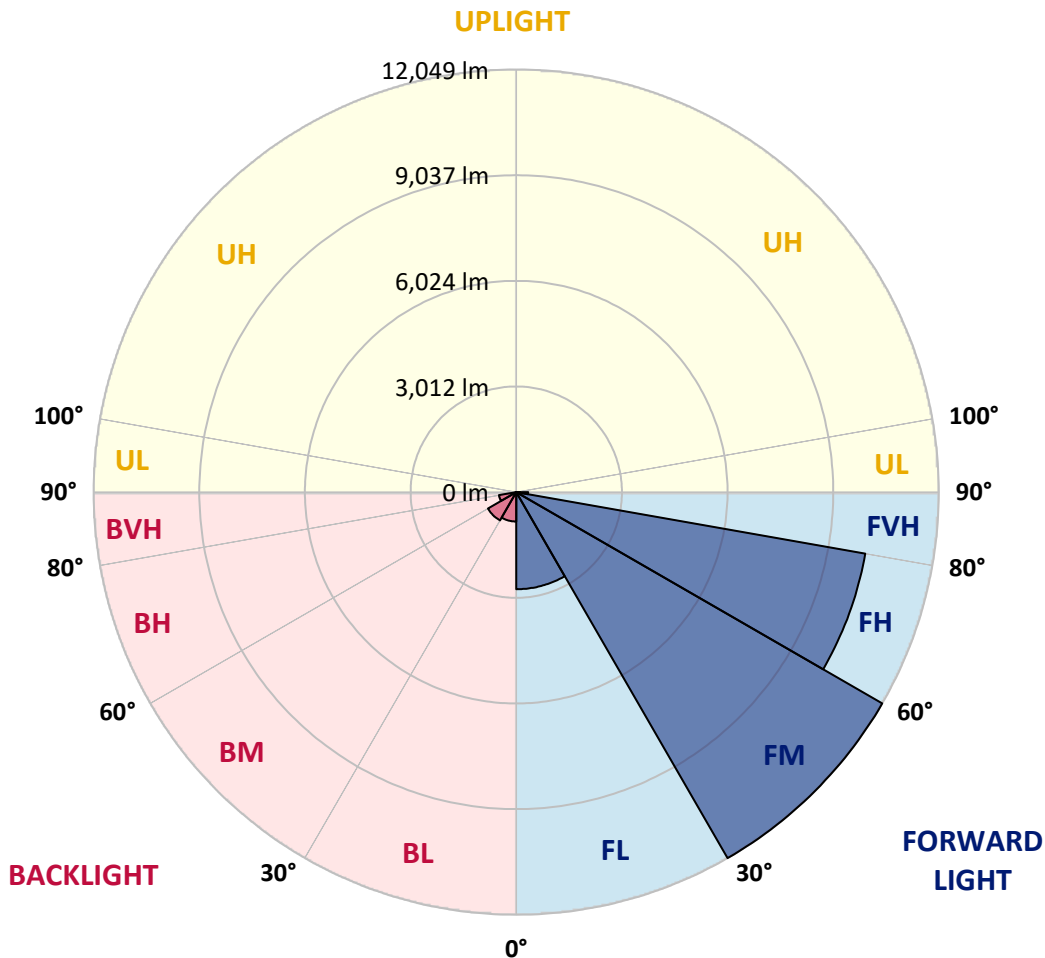
REPORT NUMBER: P484373
 CATALOG NUMBER: IFLD-S-SA6B-735-U-SL3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2767.8	10.1			
FM	(30°-60°)	12048.9	43.8			
FH	(60°-80°)	10103.9	36.7			G4/12000
FVH	(80°-90°)	336.4	1.2			G3/500
BL	(0°-30°)	838.2	3.0	B2/1000		
BM	(30°-60°)	931.6	3.4	B1/1000		
BH	(60°-80°)	500.4	1.8	B2/1000		G2/1000
BVH	(80°-90°)	5.6	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: P484373

CATALOG NUMBER: IFLD-S-SA6B-735-U-SL3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	7800.4	7800.4	7800.4	7800.4	7800.4	7800.4	7800.4	7800.4	7800.4	7800.4	7800.4
2.5°	8487.6	8516.9	8542.5	8494.9	8535.1	8476.7	8326.8	8293.9	8268.3	8045.3	7917.4
5°	8484.0	8451.1	8476.7	8498.6	8443.8	8487.6	8451.1	8454.7	8356.0	8155.0	7796.8
7.5°	7917.4	7902.8	7917.4	8023.4	8144.0	8239.1	8293.9	8348.7	8282.9	7983.2	7635.9
10°	7153.4	7226.5	7266.7	7456.8	7643.2	7818.7	7990.5	8092.8	8074.6	7953.9	7460.5
12.5°	6619.8	6597.8	6744.0	6868.3	7054.7	7409.3	7709.0	7804.1	7913.7	7745.6	7230.2
15°	6126.3	6067.8	6155.5	6371.2	6689.2	6970.7	7391.0	7533.6	7672.5	7716.4	7105.9
17.5°	5654.8	5684.0	5775.4	5969.1	6268.9	6663.6	7058.4	7263.1	7595.7	7537.2	6919.5
20°	5428.1	5490.3	5523.2	5621.9	5830.2	6225.0	6813.5	6978.0	7332.5	7533.6	6736.7
22.5°	5439.1	5439.1	5362.3	5420.8	5610.9	5917.9	6480.9	6663.6	7226.5	7343.5	6572.2
25°	5556.1	5483.0	5486.6	5417.2	5497.6	5665.7	6181.1	6404.1	7010.9	7361.8	6484.5
27.5°	5643.8	5629.2	5607.2	5589.0	5486.6	5512.2	5983.7	6166.5	6926.8	7339.9	6349.3
30°	5961.8	5896.0	5874.1	5833.9	5698.6	5574.3	5826.6	6056.8	6861.0	7391.0	6272.5
32.5°	6228.6	6239.6	6257.9	6140.9	6023.9	5716.9	5870.4	6053.2	6813.5	7508.0	6349.3
35°	6564.9	6612.4	6619.8	6583.2	6458.9	6155.5	6053.2	6210.4	6893.9	7716.4	6356.6
37.5°	7076.7	7025.5	7164.4	7179.0	7091.3	6689.2	6477.2	6539.3	7131.5	8049.0	6634.4
40°	7409.3	7471.4	7731.0	7891.8	7741.9	7376.4	7091.3	7080.3	7475.1	8571.7	6978.0
42.5°	7778.5	7917.4	8202.5	8549.8	8531.5	8191.5	7902.8	7855.3	8085.5	9328.3	7522.6
45°	8282.9	8407.2	8805.6	9328.3	9613.5	9324.7	8889.7	8794.7	8827.6	10359.1	8451.1
47.5°	9120.0	9087.1	9661.0	10176.4	10644.3	10421.3	10234.9	9957.1	9931.5	11572.7	9734.1
50°	10066.7	10059.4	10571.1	11156.0	11697.0	12132.0	11821.3	11517.9	11525.2	13221.2	11243.7
52.5°	10965.9	11108.5	11660.4	12241.6	13170.1	13637.9	13937.7	13817.1	13235.9	14694.3	12859.4
55°	11441.1	11565.4	12113.7	13115.2	14581.0	15783.6	16595.1	16492.7	15370.6	16353.8	14453.1
57.5°	10991.5	11075.6	11817.6	13129.9	15568.0	18250.9	19029.5	18901.6	17578.4	17622.2	16379.4
60°	9109.0	9240.6	10344.5	11883.4	15184.1	20151.7	22381.4	22187.7	19588.8	19226.9	17618.6
62.5°	6309.1	6396.8	7303.3	9218.7	13363.8	20813.3	25546.9	25652.9	21708.9	20477.0	17987.8
65°	4086.6	4079.3	4598.4	5896.0	9470.9	18810.2	27418.5	28076.4	23755.8	20667.1	17874.4
67°	2887.7	2876.7	3121.6	3998.9	6557.6	15498.5	27385.6	28800.2	24867.1	20721.9	16825.4
67.5°	2664.7	2653.8	2887.7	3677.2	5917.9	14412.9	26976.2	28427.3	25258.2	20645.2	16364.8
70°	2068.9	2039.7	2127.4	2533.1	3447.0	9321.0	23086.9	26113.5	24446.7	18729.8	13067.7
72.5°	1495.0	1527.9	1666.8	2079.9	2704.9	5015.1	17596.6	21116.7	20418.5	14116.8	8304.9
75°	1041.8	1071.0	1294.0	1696.1	2482.0	3041.2	11898.0	15315.7	14222.8	7793.1	3538.3
77.5°	544.6	581.2	826.1	1356.1	2255.3	2354.0	7109.6	9712.1	7537.2	2774.4	976.0
80°	252.2	270.5	413.0	961.3	1886.1	2068.9	4145.1	5402.5	3015.6	621.4	336.3
82.5°	109.7	120.6	190.1	552.0	1337.8	1809.4	2566.0	2832.9	1092.9	201.0	208.4
85°	21.9	25.6	73.1	292.4	647.0	1096.6	1802.1	1681.4	548.3	98.7	164.5
87.5°	0.0	0.0	18.3	84.1	175.5	325.3	764.0	764.0	168.1	51.2	62.1
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: P484373
 CATALOG NUMBER: IFLD-S-SA6B-735-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7800.4	7800.4	7800.4	7800.4	7800.4	7800.4	7800.4	7800.4	7800.4	7800.4	7800.4
2.5°	7804.1	7672.5	7383.7	7116.9	6926.8	6711.1	6426.0	6298.1	6250.6	6184.8	6086.1
5°	7599.4	7438.5	6945.1	6448.0	5903.3	5490.3	5051.6	4795.8	4602.0	4481.4	4441.2
7.5°	7310.6	6981.6	6316.4	5519.5	4814.0	4199.9	3534.7	3085.1	2796.3	2679.3	2569.7
10°	7080.3	6652.7	5640.1	4649.6	3710.1	2810.9	2061.6	1666.8	1367.1	1253.8	1239.1
12.5°	6780.6	6268.9	5007.8	3761.3	2580.6	1674.1	1140.5	990.6	906.5	891.9	880.9
15°	6532.0	5921.6	4408.3	2913.3	1670.5	1045.4	888.2	851.7	829.8	822.4	826.1
17.5°	6363.9	5548.8	3794.2	2120.1	1100.2	855.3	818.8	796.9	785.9	782.2	771.3
20°	6031.3	5234.4	3187.4	1484.1	859.0	789.5	760.3	742.0	731.1	727.4	723.8
22.5°	5841.2	4836.0	2580.6	1034.5	764.0	716.4	694.5	679.9	661.6	650.6	647.0
25°	5651.1	4543.5	2039.7	804.2	694.5	661.6	628.7	610.4	581.2	566.6	562.9
27.5°	5428.1	4254.8	1571.8	698.2	625.1	592.2	559.3	530.0	493.5	478.8	471.5
30°	5300.2	3973.3	1184.3	625.1	573.9	530.0	489.8	453.3	413.0	387.5	380.2
32.5°	5234.4	3717.4	888.2	570.2	519.1	471.5	420.4	376.5	339.9	318.0	314.4
35°	5154.0	3468.9	698.2	519.1	467.9	416.7	365.5	321.7	285.1	266.8	259.5
37.5°	5238.1	3322.7	581.2	478.8	427.7	369.2	314.4	270.5	241.3	223.0	219.3
40°	5468.3	3202.0	504.4	442.3	387.5	325.3	274.1	230.3	204.7	190.1	182.8
42.5°	5822.9	3202.0	456.9	405.7	350.9	285.1	233.9	201.0	175.5	160.8	157.2
45°	6466.2	3300.7	416.7	369.2	307.0	244.9	201.0	168.1	142.6	127.9	124.3
47.5°	7369.1	3527.4	383.8	336.3	274.1	215.7	175.5	142.6	117.0	102.3	98.7
50°	8582.7	4042.8	350.9	296.1	244.9	186.4	146.2	113.3	91.4	76.8	73.1
52.5°	10096.0	4773.8	318.0	274.1	208.4	157.2	117.0	91.4	69.5	58.5	54.8
55°	11697.0	5669.4	277.8	244.9	179.1	131.6	95.0	69.5	51.2	43.9	40.2
57.5°	13309.0	6360.2	244.9	212.0	146.2	106.0	76.8	54.8	36.6	29.2	25.6
60°	14164.3	6426.0	212.0	175.5	117.0	84.1	58.5	40.2	25.6	18.3	14.6
62.5°	14295.9	5841.2	182.8	142.6	95.0	65.8	40.2	29.2	14.6	7.3	7.3
65°	13619.7	4868.9	157.2	113.3	73.1	47.5	29.2	18.3	7.3	3.7	0.0
67°	12523.1	4079.3	135.2	95.0	58.5	36.6	21.9	11.0	3.7	0.0	0.0
67.5°	12099.1	3860.0	127.9	87.7	54.8	32.9	18.3	11.0	3.7	0.0	0.0
70°	9390.5	2756.1	95.0	62.1	40.2	25.6	14.6	7.3	0.0	0.0	0.0
72.5°	5753.5	1612.0	73.1	43.9	29.2	18.3	11.0	3.7	0.0	0.0	0.0
75°	2412.5	555.6	62.1	32.9	21.9	11.0	7.3	3.7	0.0	0.0	0.0
77.5°	628.7	208.4	43.9	21.9	14.6	11.0	7.3	3.7	0.0	0.0	0.0
80°	255.9	95.0	29.2	14.6	14.6	11.0	7.3	3.7	0.0	0.0	0.0
82.5°	168.1	43.9	18.3	14.6	11.0	7.3	3.7	0.0	0.0	0.0	0.0
85°	127.9	25.6	11.0	11.0	7.3	3.7	0.0	0.0	0.0	0.0	0.0
87.5°	54.8	14.6	11.0	7.3	7.3	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)