

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: P482227

Luminaire Tested: **IFLD-S-SA6A-830-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482227
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-830-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

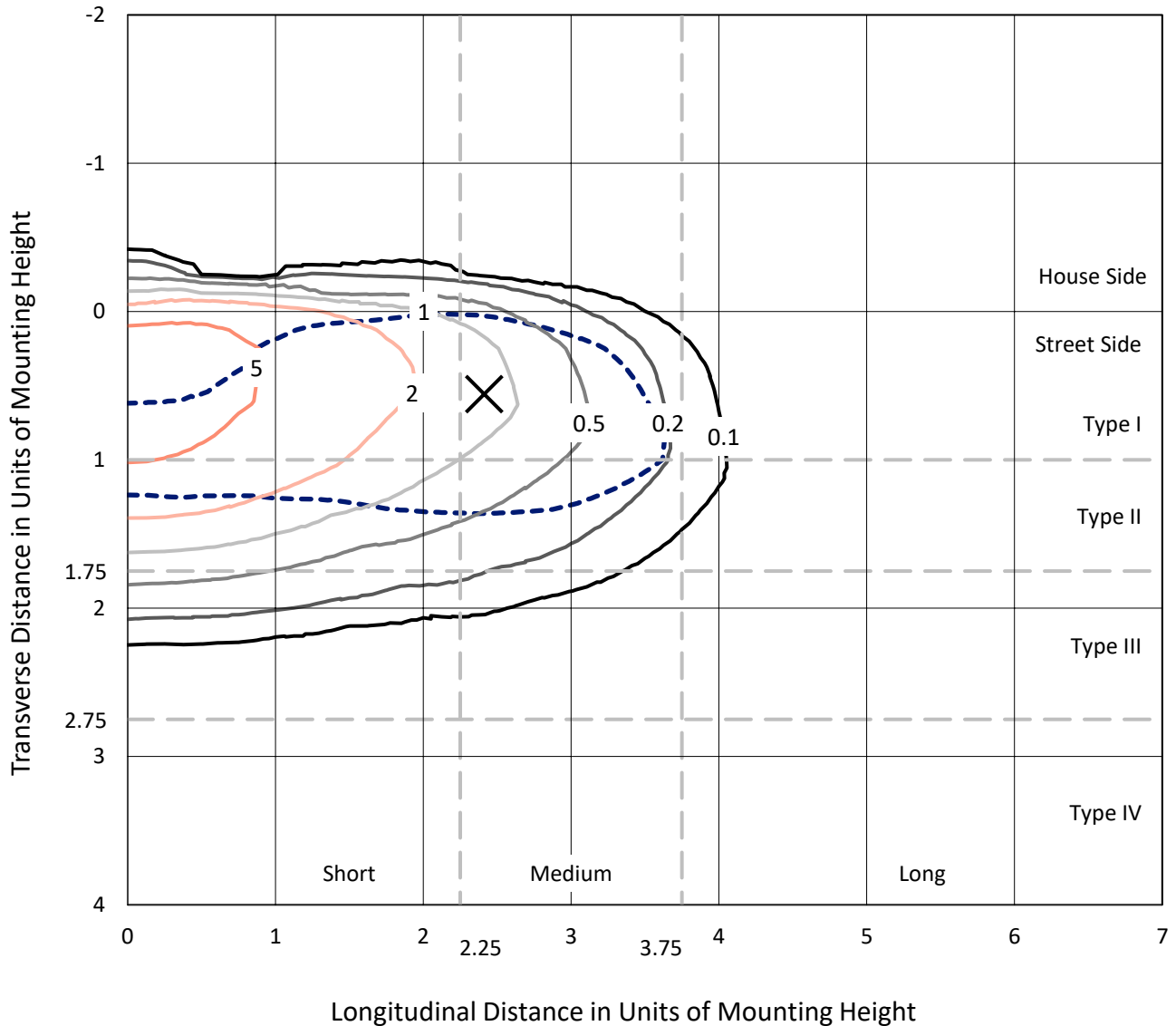
Lumens per Lamp: N/A
Luminaire Lumens: 16861.2 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 189.6
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: P482227
 CATALOG NUMBER: IFLD-S-SA6A-830-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

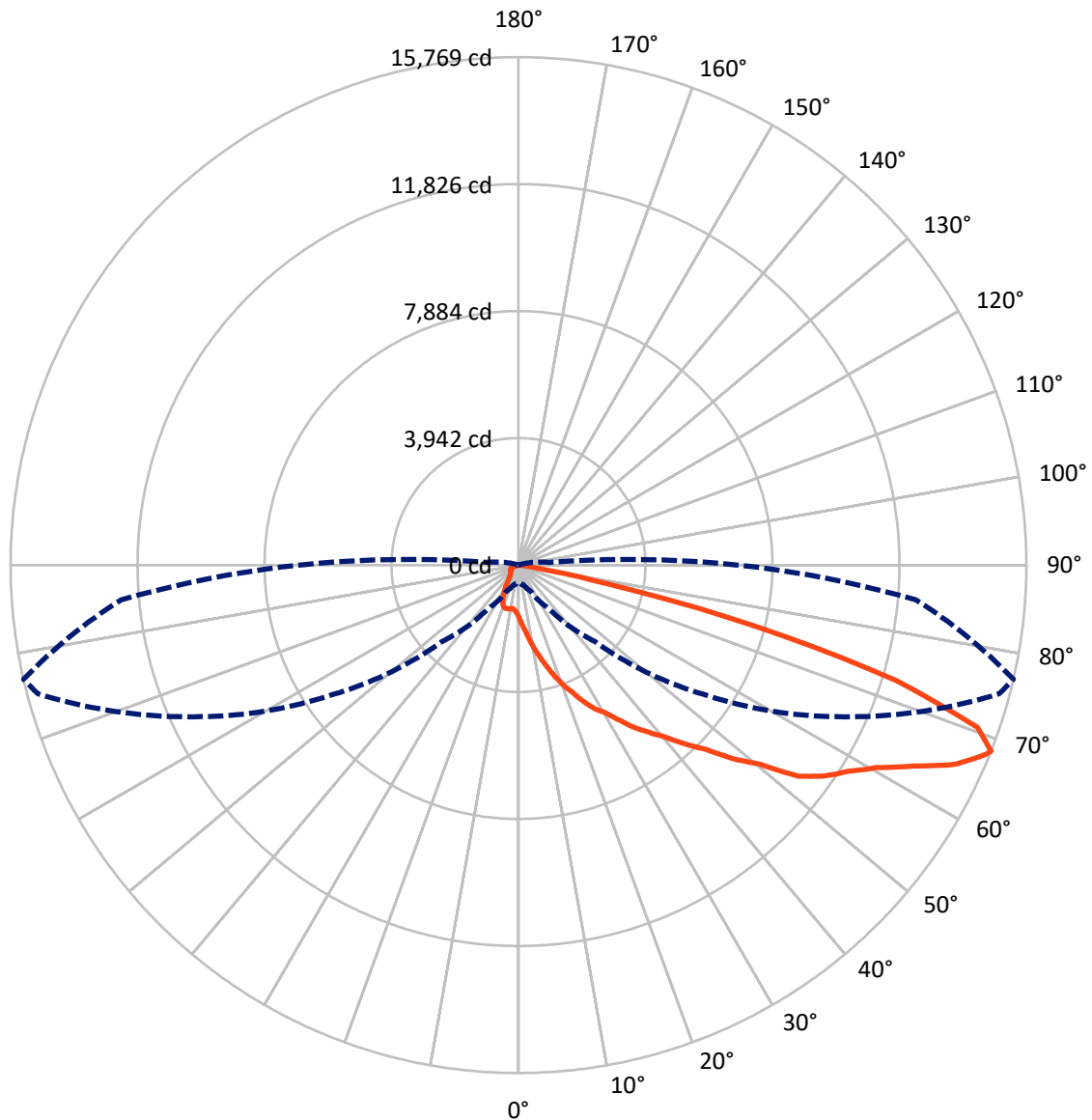
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type II - Medium - N/A

REPORT NUMBER: P482227
CATALOG NUMBER: IFLD-S-SA6A-830-U-T2R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

REPORT NUMBER: P482227
 CATALOG NUMBER: IFLD-S-SA6A-830-U-T2R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	764.6	0.0	764.6
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	16096.5	0.0	16096.5
	% Fixture	95.5	0.0	95.5
Total	Lumens	16861.2	0.0	16861.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.6	1.1
10°-20°	695.6	4.1
20°-30°	1348.1	8.0
30°-40°	2350.3	13.9
40°-50°	3442.2	20.4
50°-60°	4044.0	24.0
60°-70°	3414.8	20.3
70°-80°	1323.7	7.9
80°-90°	53.8	0.3
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°	16861.2	100.0
0°-180°	16861.2	100.0



REPORT NUMBER: P482227

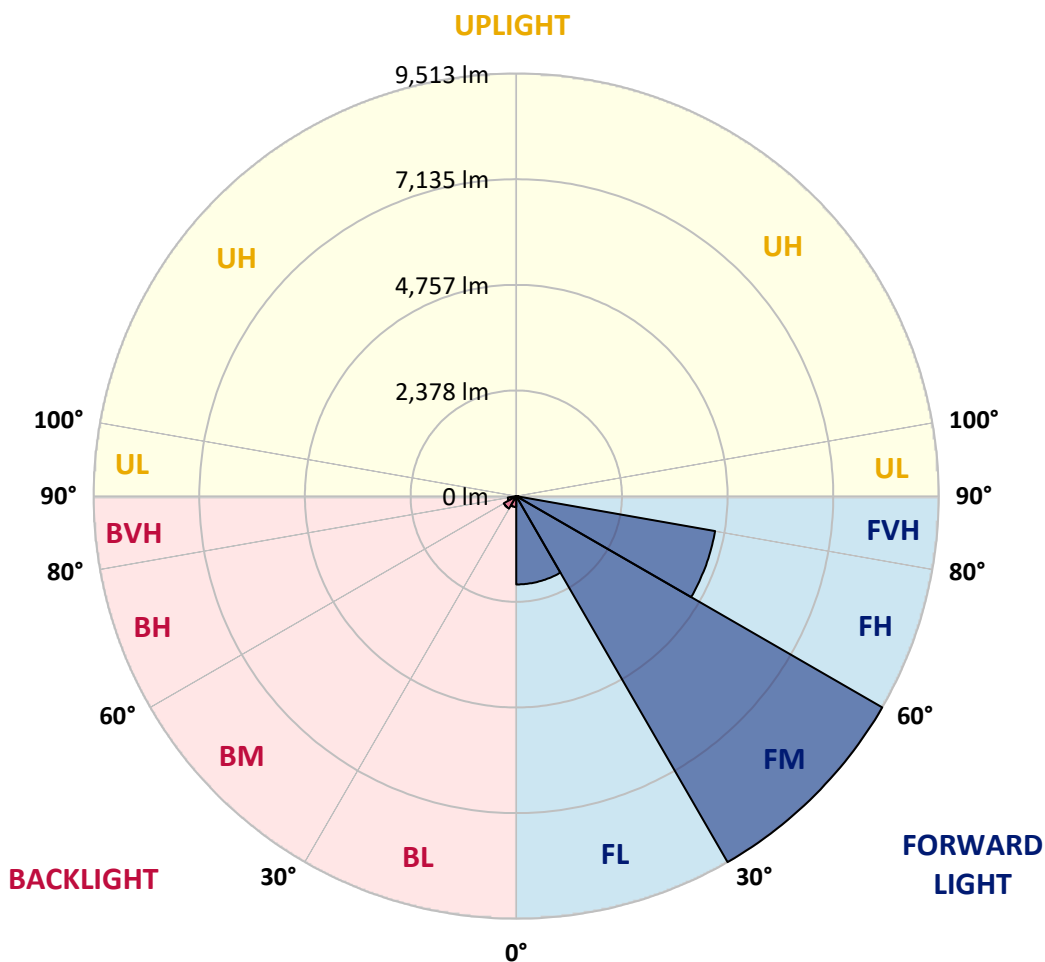
CATALOG NUMBER: IFLD-S-SA6A-830-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1988.1	11.8			
FM (30°-60°)	9513.4	56.4			
FH (60°-80°)	4545.4	27.0			G2/5000
FVH (80°-90°)	49.7	0.3			G1/100
BL (0°-30°)	244.3	1.4	B1/500		
BM (30°-60°)	323.1	1.9	B1/1000		
BH (60°-80°)	193.1	1.1	B1/500		G1/500
BVH (80°-90°)	4.2	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-G2

Type II Medium





REPORT NUMBER: P482227

CATALOG NUMBER: IFLD-S-SA6A-830-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1614.5	1614.5	1614.5	1614.5	1614.5	1614.5	1614.5	1614.5	1614.5	1614.5	1614.5
2.5°	2453.1	2406.6	2357.8	2343.9	2253.3	2151.1	2055.9	1962.9	1807.3	1809.6	1702.8
5°	3161.6	3103.5	3064.0	3054.7	2913.0	2736.5	2592.5	2330.0	2072.1	2014.0	1818.9
7.5°	3744.7	3726.1	3668.0	3619.2	3514.7	3298.7	3129.1	2752.8	2360.2	2295.1	1960.6
10°	4097.8	4125.6	4151.2	4088.5	4007.2	3851.5	3619.2	3212.7	2687.7	2606.4	2144.1
12.5°	4474.1	4427.6	4443.9	4495.0	4388.1	4353.3	4065.2	3686.6	3071.0	2915.4	2376.4
15°	4571.7	4590.2	4629.7	4778.4	4850.4	4750.5	4502.0	4069.9	3468.2	3252.2	2592.5
17.5°	4636.7	4627.4	4676.2	4899.2	5008.4	5103.6	4948.0	4497.3	3814.4	3621.6	2861.9
20°	4718.0	4666.9	4773.8	4915.5	5168.7	5368.4	5361.5	4927.1	4176.7	3972.3	3129.1
22.5°	5020.0	4980.5	5066.5	5080.4	5256.9	5535.7	5603.1	5277.8	4548.4	4297.5	3417.1
25°	5577.5	5649.5	5547.3	5459.0	5512.5	5696.0	5744.8	5589.1	4922.4	4692.5	3705.2
27.5°	6392.9	6383.6	6181.5	6067.7	5939.9	5916.7	5951.5	5879.5	5217.4	5052.5	3942.1
30°	7268.7	7192.0	7006.2	6732.0	6451.0	6276.7	6228.0	6153.6	5563.6	5324.3	4176.7
32.5°	7965.6	8007.4	7800.6	7442.9	6976.0	6741.3	6506.7	6425.4	5944.5	5733.2	4446.2
35°	8606.7	8550.9	8386.0	8084.0	7665.9	7287.2	6920.2	6746.0	6402.2	6193.1	4743.6
37.5°	9080.6	9150.3	8836.7	8548.6	8132.8	7819.2	7459.1	7078.2	6873.7	6595.0	5105.9
40°	9528.9	9419.8	9208.4	8943.5	8557.9	8318.6	8081.7	7487.0	7375.5	7015.4	5514.8
42.5°	9449.9	9456.9	9340.8	9127.1	8848.3	8711.2	8629.9	7984.1	7830.8	7600.8	5914.3
45°	9127.1	9154.9	9194.4	9089.9	9113.1	8976.1	9194.4	8555.6	8404.6	8160.7	6374.3
47.5°	8771.6	8818.1	8808.8	8999.3	9215.3	9261.8	9807.7	9189.8	9124.7	8990.0	7010.8
50°	8181.6	8200.2	8379.0	8725.2	9020.2	9505.7	10267.6	9882.0	9981.9	9717.1	7768.1
52.5°	7173.4	7240.8	7700.7	8195.5	8790.2	9628.8	10578.9	10911.1	11164.3	10892.5	8495.2
55°	5898.1	5991.0	6444.0	7370.9	8242.0	9443.0	10862.3	11454.7	11968.1	11556.9	8936.6
57.5°	4745.9	4755.2	5161.7	6118.8	7463.8	9078.3	11006.4	11719.5	12409.4	12079.6	9475.5
60°	3616.9	3579.7	3944.4	4773.8	6153.6	8181.6	10646.3	11854.3	12960.0	12769.5	10123.6
62.5°	2327.6	2269.6	2666.8	3475.2	4806.3	6687.9	9926.2	11856.6	13819.5	13747.5	11208.5
65°	1152.2	1112.7	1454.2	2130.2	3326.5	5115.2	8899.4	11812.4	14869.5	14916.0	12265.4
67.5°	608.6	622.6	731.7	1080.2	1918.8	3614.6	7352.3	11294.4	15406.1	15666.3	12521.0
68°	559.8	564.5	650.4	899.0	1665.6	3352.1	6985.3	11143.4	15447.9	15768.5	12379.2
70°	455.3	462.3	492.5	564.5	901.3	2181.3	5389.4	9861.1	14818.4	15111.1	11206.1
72.5°	362.4	383.3	401.9	432.1	529.6	1145.2	3352.1	7684.5	12242.2	12274.7	8722.9
75°	276.4	292.7	329.9	355.4	413.5	629.5	1595.9	4685.5	8032.9	7638.0	5138.5
77.5°	213.7	227.7	243.9	278.8	346.1	425.1	487.8	1988.5	3412.5	2808.5	1451.9
80°	127.8	137.1	190.5	218.4	302.0	288.1	192.8	552.9	692.3	545.9	264.8
82.5°	74.3	81.3	109.2	167.3	211.4	155.6	113.8	171.9	169.6	148.7	88.3
85°	2.3	4.6	60.4	99.9	74.3	41.8	69.7	72.0	60.4	55.8	39.5
87.5°	0.0	2.3	16.3	13.9	16.3	9.3	13.9	18.6	23.2	20.9	16.3
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: P482227

CATALOG NUMBER: IFLD-S-SA6A-830-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1614.5	1614.5	1614.5	1614.5	1614.5	1614.5	1614.5	1614.5	1614.5	1614.5	1614.5
2.5°	1630.7	1579.6	1465.8	1379.9	1286.9	1231.2	1175.4	1140.6	1122.0	1110.4	1119.7
5°	1672.6	1565.7	1382.2	1219.6	1112.7	1040.7	968.7	931.5	896.7	878.1	889.7
7.5°	1765.5	1605.2	1300.9	1124.3	998.9	887.4	796.8	724.8	683.0	645.8	652.8
10°	1879.3	1628.4	1303.2	1068.6	887.4	710.8	583.1	492.5	441.4	408.8	406.5
12.5°	1995.5	1719.0	1312.5	1012.8	750.3	534.3	383.3	315.9	285.7	269.5	269.5
15°	2172.0	1800.3	1289.3	910.6	569.1	348.4	262.5	239.3	227.7	213.7	216.0
17.5°	2325.3	1930.4	1277.6	757.3	390.3	250.9	218.4	192.8	181.2	167.3	167.3
20°	2532.1	2011.7	1214.9	585.4	269.5	209.1	176.5	153.3	134.7	123.1	125.4
22.5°	2720.2	2074.4	1103.4	399.6	206.7	164.9	130.1	106.9	90.6	76.7	79.0
25°	2924.7	2137.2	940.8	246.2	146.3	102.2	69.7	51.1	34.8	25.6	25.6
27.5°	3071.0	2155.7	729.4	146.3	88.3	46.5	16.3	2.3	0.0	0.0	0.0
30°	3219.7	2162.7	504.1	79.0	34.8	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	3389.3	2160.4	315.9	41.8	2.3	0.0	0.0	0.0	0.0	0.0	0.0
35°	3519.3	2120.9	151.0	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	3716.8	2062.8	46.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	3942.1	1958.3	9.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	4144.2	1851.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	4374.2	1719.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	4778.4	1663.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	5305.7	1619.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	5630.9	1489.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	5800.5	1354.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	6051.4	1289.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	6423.1	1293.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	7003.8	1359.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	7324.4	1293.9	9.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	7052.6	1036.1	44.1	11.6	2.3	0.0	0.0	0.0	0.0	0.0	0.0
68°	6818.0	952.4	44.1	11.6	2.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	5635.6	620.2	41.8	11.6	4.6	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	4104.7	343.8	34.8	9.3	4.6	0.0	0.0	0.0	0.0	0.0	0.0
75°	2388.0	171.9	25.6	9.3	4.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	622.6	86.0	20.9	11.6	7.0	2.3	0.0	0.0	0.0	0.0	0.0
80°	123.1	55.8	18.6	13.9	9.3	4.6	0.0	0.0	0.0	0.0	0.0
82.5°	58.1	39.5	18.6	13.9	11.6	7.0	2.3	0.0	0.0	0.0	0.0
85°	30.2	18.6	18.6	13.9	13.9	9.3	4.6	0.0	0.0	0.0	0.0
87.5°	13.9	7.0	7.0	7.0	7.0	4.6	2.3	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)