

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: P482228

Luminaire Tested: **IFLD-S-SA6B-830-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482228
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-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

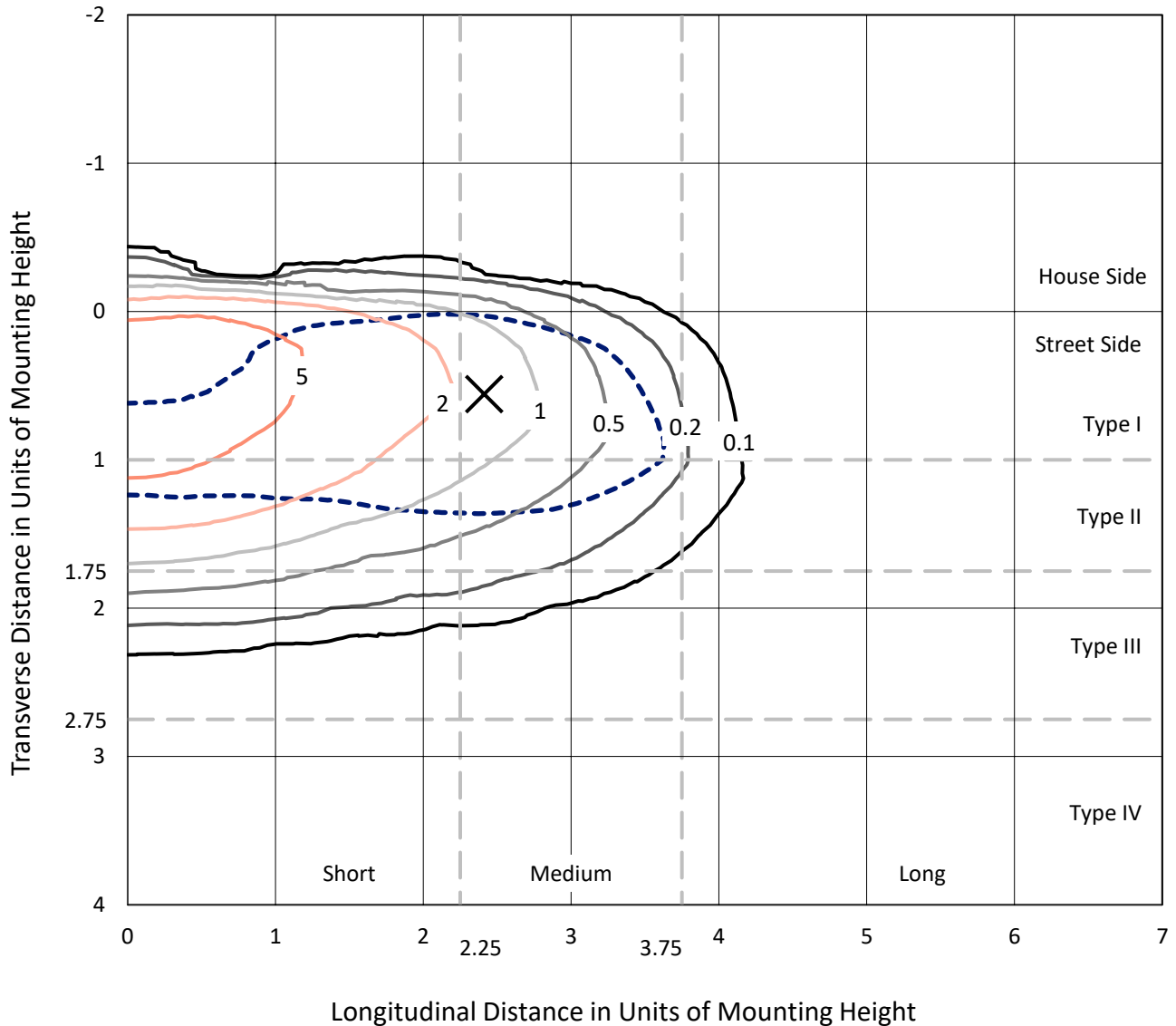
Lumens per Lamp: N/A
Luminaire Lumens: 20853 lumens
Efficiency: N/A
Efficacy: 85.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

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

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Iso-Footcandle Lines of Horizontal Illumination

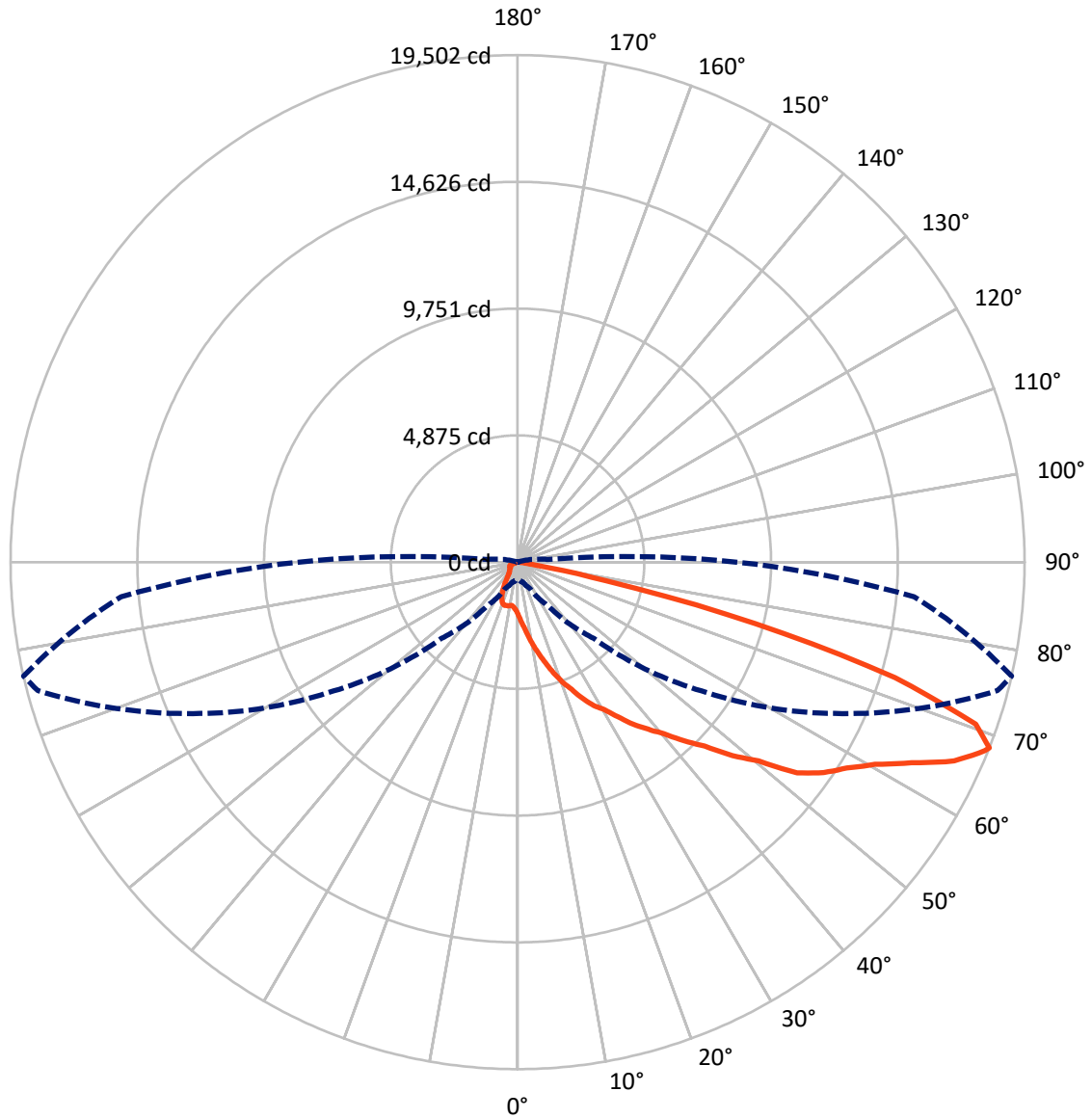
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	945.7	0.0	945.7
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	19907.3	0.0	19907.3
	% Fixture	95.5	0.0	95.5
Total	Lumens	20853.0	0.0	20853.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.3	1.1
10°-20°	860.3	4.1
20°-30°	1667.3	8.0
30°-40°	2906.7	13.9
40°-50°	4257.1	20.4
50°-60°	5001.4	24.0
60°-70°	4223.3	20.3
70°-80°	1637.0	7.9
80°-90°	66.6	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°	20853.0	100.0
0°-180°	20853.0	100.0

Coefficient of Utilization



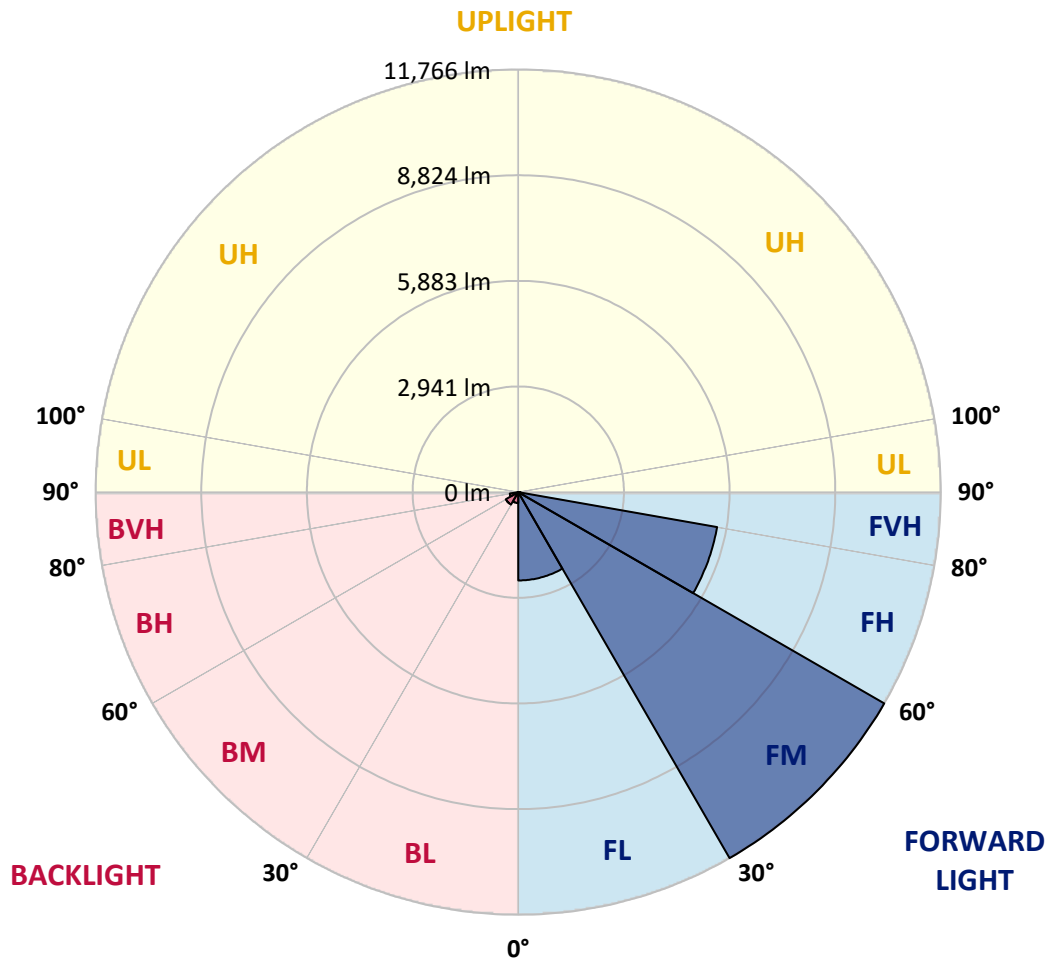
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2458.7	11.8			
FM (30°-60°)	11765.6	56.4			
FH (60°-80°)	5621.5	27.0			G3/7500
FVH (80°-90°)	61.4	0.3			G1/100
BL (0°-30°)	302.1	1.4	B1/500		
BM (30°-60°)	399.6	1.9	B1/1000		
BH (60°-80°)	238.8	1.1	B1/500		G1/500
BVH (80°-90°)	5.2	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-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1996.7	1996.7	1996.7	1996.7	1996.7	1996.7	1996.7	1996.7	1996.7	1996.7	1996.7
2.5°	3033.8	2976.4	2916.0	2898.8	2786.8	2660.4	2542.6	2427.6	2235.2	2238.0	2105.9
5°	3910.1	3838.3	3789.4	3777.9	3602.7	3384.3	3206.2	2881.6	2562.7	2490.9	2249.5
7.5°	4631.2	4608.2	4536.4	4476.1	4346.8	4079.6	3869.9	3404.5	2918.9	2838.5	2424.8
10°	5067.9	5102.4	5134.0	5056.4	4955.8	4763.4	4476.1	3973.3	3324.0	3223.5	2651.7
12.5°	5533.3	5475.9	5496.0	5559.2	5427.0	5383.9	5027.7	4559.4	3798.0	3605.6	2939.0
15°	5654.0	5677.0	5725.8	5909.7	5998.7	5875.2	5567.8	5033.4	4289.3	4022.1	3206.2
17.5°	5734.4	5722.9	5783.3	6059.1	6194.1	6311.9	6119.4	5562.0	4717.4	4478.9	3539.5
20°	5835.0	5771.8	5903.9	6079.2	6392.3	6639.4	6630.8	6093.5	5165.6	4912.8	3869.9
22.5°	6208.5	6159.6	6265.9	6283.2	6501.5	6846.2	6929.6	6527.4	5625.2	5315.0	4226.1
25°	6898.0	6987.0	6860.6	6751.4	6817.5	7044.5	7104.8	6912.3	6087.8	5803.4	4582.4
27.5°	7906.4	7894.9	7644.9	7504.2	7346.1	7317.4	7360.5	7271.4	6452.7	6248.7	4875.4
30°	8989.5	8894.7	8664.8	8325.8	7978.2	7762.7	7702.4	7610.5	6880.7	6584.8	5165.6
32.5°	9851.4	9903.1	9647.4	9204.9	8627.5	8337.3	8047.1	7946.6	7351.9	7090.5	5498.8
35°	10644.3	10575.3	10371.4	9997.9	9480.7	9012.5	8558.5	8343.1	7917.9	7659.3	5866.6
37.5°	11230.4	11316.6	10928.7	10572.5	10058.2	9670.4	9225.1	8753.9	8501.1	8156.3	6314.8
40°	11784.9	11649.8	11388.4	11060.9	10584.0	10288.0	9995.0	9259.5	9121.6	8676.3	6820.4
42.5°	11687.2	11695.8	11552.1	11287.8	10943.1	10773.6	10673.0	9874.3	9684.7	9400.3	7314.5
45°	11287.8	11322.3	11371.2	11241.9	11270.6	11101.1	11371.2	10581.1	10394.3	10092.7	7883.4
47.5°	10848.3	10905.7	10894.2	11129.8	11397.0	11454.5	12129.6	11365.4	11285.0	11118.3	8670.6
50°	10118.5	10141.5	10362.7	10790.8	11155.7	11756.1	12698.5	12221.5	12345.1	12017.6	9607.2
52.5°	8871.7	8955.0	9523.8	10135.8	10871.3	11908.4	13083.4	13494.3	13807.4	13471.3	10506.4
55°	7294.4	7409.3	7969.6	9115.9	10193.2	11678.6	13433.9	14166.5	14801.5	14292.9	11052.3
57.5°	5869.4	5880.9	6383.7	7567.4	9230.8	11227.5	13612.1	14494.1	15347.3	14939.4	11718.8
60°	4473.2	4427.2	4878.3	5903.9	7610.5	10118.5	13166.7	14660.7	16028.2	15792.6	12520.3
62.5°	2878.7	2806.9	3298.2	4297.9	5944.1	8271.2	12276.1	14663.6	17091.2	17002.1	13862.0
65°	1425.0	1376.1	1798.5	2634.5	4114.1	6326.2	11006.3	14609.0	18389.8	18447.2	15169.2
67.5°	752.7	770.0	905.0	1335.9	2373.1	4470.3	9092.9	13968.3	19053.4	19375.2	15485.2
68°	692.4	698.1	804.4	1111.8	2059.9	4145.7	8639.0	13781.6	19105.1	19501.6	15310.0
70°	563.1	571.7	609.1	698.1	1114.7	2697.7	6665.3	12195.7	18326.6	18688.6	13859.1
72.5°	448.2	474.0	497.0	534.4	655.0	1416.4	4145.7	9503.7	15140.5	15180.7	10787.9
75°	341.9	362.0	408.0	439.6	511.4	778.6	1973.7	5794.7	9934.7	9446.3	6355.0
77.5°	264.3	281.5	301.7	344.8	428.1	525.8	603.3	2459.2	4220.4	3473.4	1795.6
80°	158.0	169.5	235.6	270.1	373.5	356.2	238.5	683.8	856.1	675.1	327.5
82.5°	91.9	100.6	135.0	206.9	261.4	192.5	140.8	212.6	209.7	183.9	109.2
85°	2.9	5.7	74.7	123.5	91.9	51.7	86.2	89.1	74.7	69.0	48.8
87.5°	0.0	2.9	20.1	17.2	20.1	11.5	17.2	23.0	28.7	25.9	20.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1996.7	1996.7	1996.7	1996.7	1996.7	1996.7	1996.7	1996.7	1996.7	1996.7	1996.7
2.5°	2016.8	1953.6	1812.8	1706.5	1591.6	1522.7	1453.7	1410.6	1387.6	1373.3	1384.8
5°	2068.5	1936.4	1709.4	1508.3	1376.1	1287.1	1198.0	1152.1	1109.0	1086.0	1100.3
7.5°	2183.4	1985.2	1608.9	1390.5	1235.4	1097.5	985.4	896.4	844.6	798.7	807.3
10°	2324.2	2013.9	1611.7	1321.6	1097.5	879.1	721.1	609.1	545.9	505.6	502.8
12.5°	2467.9	2126.0	1623.2	1252.6	928.0	660.8	474.0	390.7	353.4	333.3	333.3
15°	2686.2	2226.5	1594.5	1126.2	703.9	430.9	324.6	295.9	281.5	264.3	267.2
17.5°	2875.8	2387.4	1580.1	936.6	482.7	310.3	270.1	238.5	224.1	206.9	206.9
20°	3131.5	2488.0	1502.6	724.0	333.3	258.6	218.3	189.6	166.6	152.3	155.1
22.5°	3364.2	2565.5	1364.7	494.1	255.7	204.0	160.9	132.2	112.0	94.8	97.7
25°	3617.0	2643.1	1163.5	304.5	181.0	126.4	86.2	63.2	43.1	31.6	31.6
27.5°	3798.0	2666.1	902.1	181.0	109.2	57.5	20.1	2.9	0.0	0.0	0.0
30°	3981.9	2674.7	623.4	97.7	43.1	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	4191.6	2671.8	390.7	51.7	2.9	0.0	0.0	0.0	0.0	0.0	0.0
35°	4352.5	2623.0	186.7	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	4596.7	2551.2	57.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	4875.4	2421.9	11.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	5125.4	2289.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	5409.8	2126.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	5909.7	2057.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	6561.8	2002.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	6964.0	1841.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	7173.8	1674.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	7484.0	1594.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	7943.7	1600.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	8662.0	1680.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	9058.4	1600.2	11.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	8722.3	1281.3	54.6	14.4	2.9	0.0	0.0	0.0	0.0	0.0	0.0
68°	8432.1	1177.9	54.6	14.4	2.9	0.0	0.0	0.0	0.0	0.0	0.0
70°	6969.8	767.1	51.7	14.4	5.7	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	5076.5	425.2	43.1	11.5	5.7	0.0	0.0	0.0	0.0	0.0	0.0
75°	2953.4	212.6	31.6	11.5	5.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	770.0	106.3	25.9	14.4	8.6	2.9	0.0	0.0	0.0	0.0	0.0
80°	152.3	69.0	23.0	17.2	11.5	5.7	0.0	0.0	0.0	0.0	0.0
82.5°	71.8	48.8	23.0	17.2	14.4	8.6	2.9	0.0	0.0	0.0	0.0
85°	37.3	23.0	23.0	17.2	17.2	11.5	5.7	0.0	0.0	0.0	0.0
87.5°	17.2	8.6	8.6	8.6	8.6	5.7	2.9	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)