

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: P482199

Luminaire Tested: **IFLD-L-SA7B-827-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482199
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-827-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

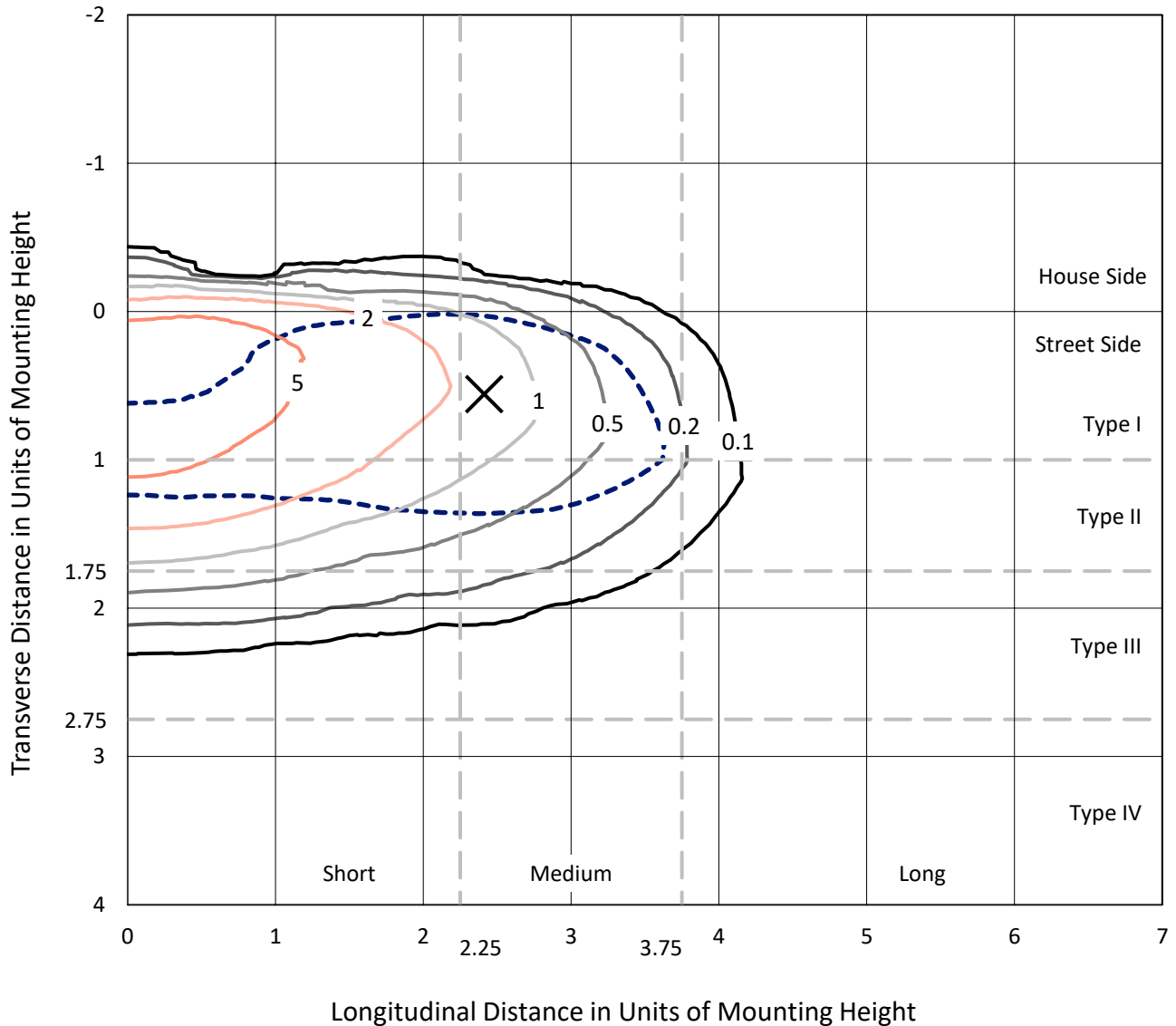
Lumens per Lamp: N/A
Luminaire Lumens: 20581.7 lumens
Efficiency: N/A
Efficacy: 73.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

Input Watts (W): 281
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

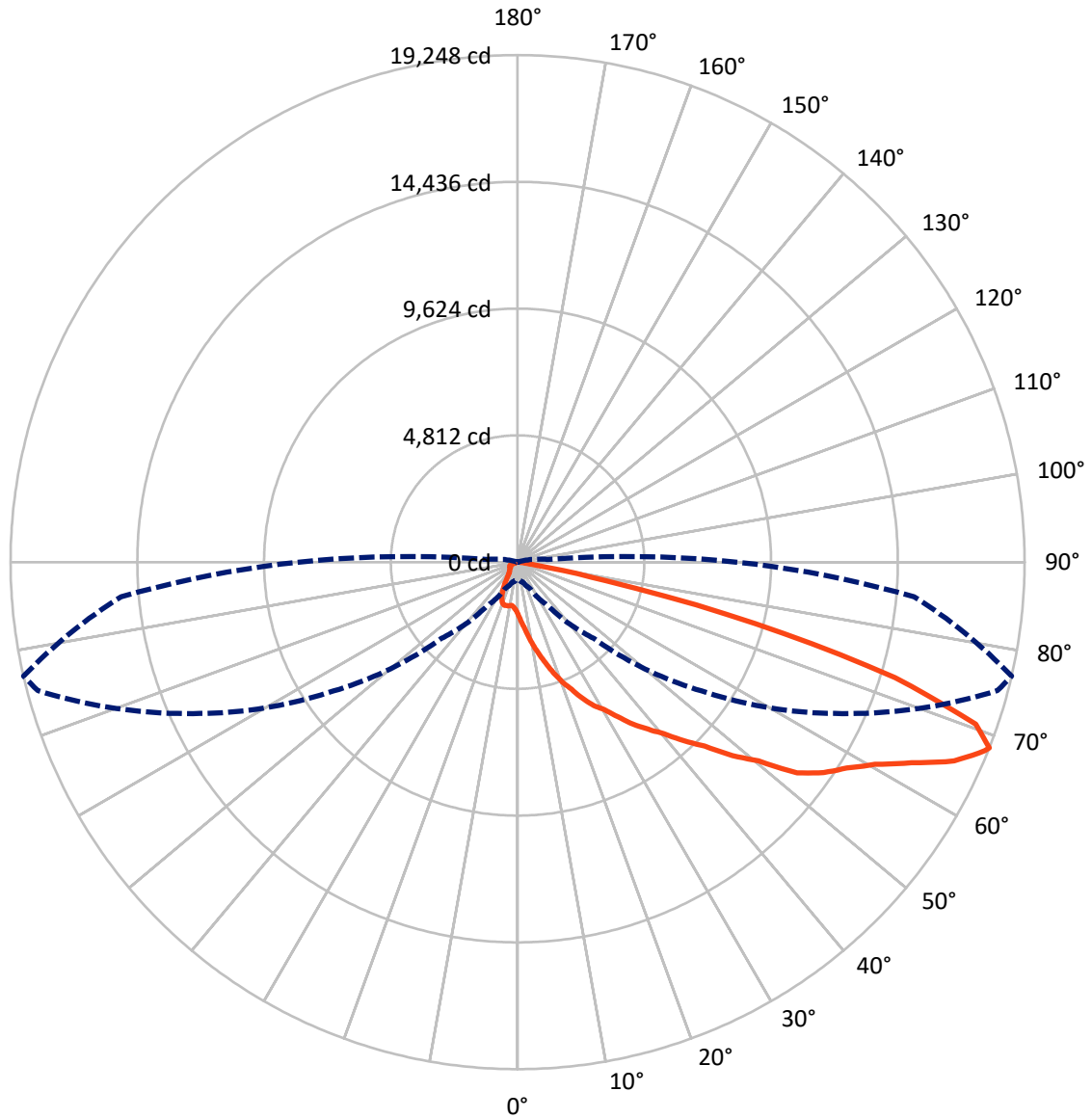
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 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	933.4	0.0	933.4
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	19648.3	0.0	19648.3
	% Fixture	95.5	0.0	95.5
Total	Lumens	20581.7	0.0	20581.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.2	1.1
10°-20°	849.1	4.1
20°-30°	1645.6	8.0
30°-40°	2868.9	13.9
40°-50°	4201.7	20.4
50°-60°	4936.4	24.0
60°-70°	4168.3	20.3
70°-80°	1615.7	7.9
80°-90°	65.7	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°	20581.7	100.0
0°-180°	20581.7	100.0

Coefficient of Utilization



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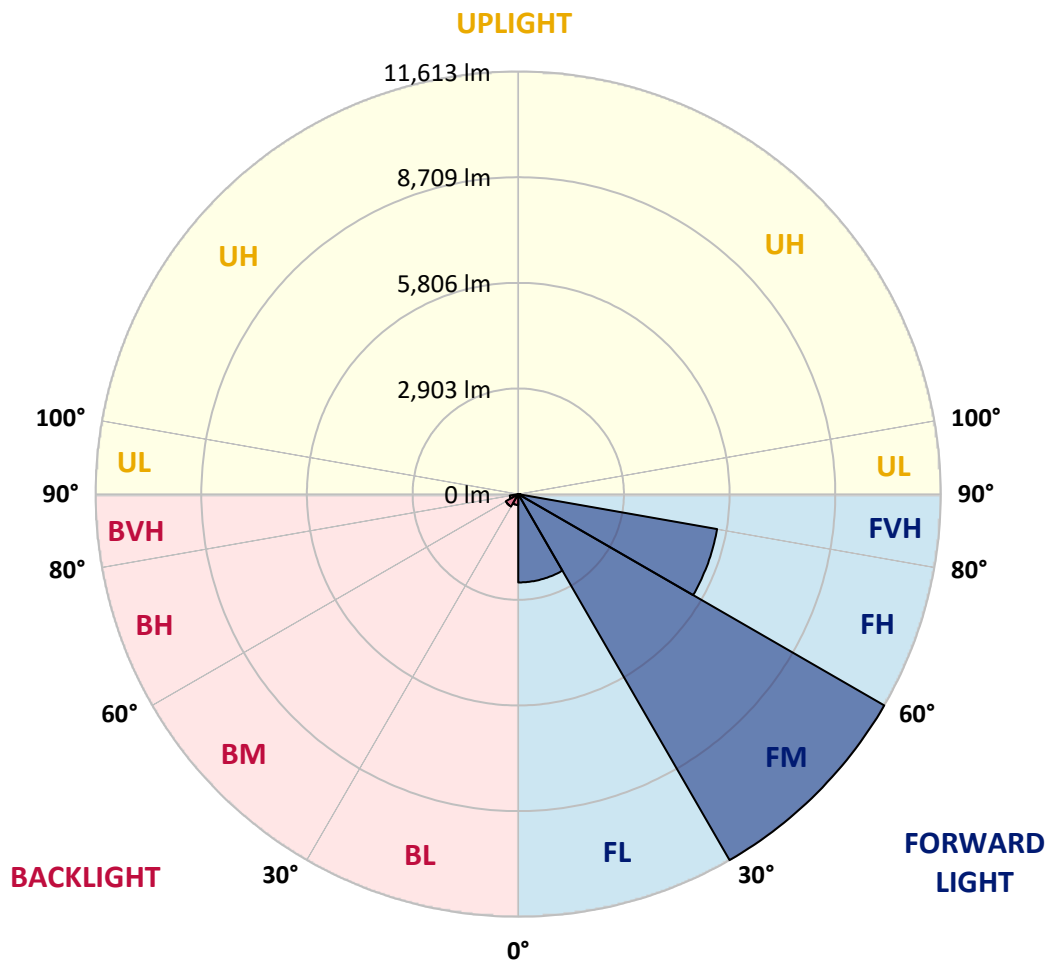
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2426.8	11.8			
FM (30°-60°)	11612.6	56.4			
FH (60°-80°)	5548.4	27.0			G3/7500
FVH (80°-90°)	60.6	0.3			G1/100
BL (0°-30°)	298.2	1.4	B1/500		
BM (30°-60°)	394.4	1.9	B1/1000		
BH (60°-80°)	235.7	1.1	B1/500		G1/500
BVH (80°-90°)	5.1	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°	1970.7	1970.7	1970.7	1970.7	1970.7	1970.7	1970.7	1970.7	1970.7	1970.7	1970.7
2.5°	2994.4	2937.7	2878.1	2861.1	2750.5	2625.7	2509.5	2396.1	2206.1	2208.9	2078.5
5°	3859.2	3788.3	3740.1	3728.8	3555.8	3340.3	3164.5	2844.1	2529.3	2458.4	2220.3
7.5°	4571.0	4548.3	4477.4	4417.8	4290.2	4026.5	3819.5	3360.2	2880.9	2801.6	2393.2
10°	5002.0	5036.0	5067.2	4990.6	4891.4	4701.4	4417.8	3921.6	3280.8	3181.5	2617.2
12.5°	5461.3	5404.6	5424.5	5486.8	5356.4	5313.9	4962.3	4500.1	3748.6	3558.7	2900.8
15°	5580.4	5603.1	5651.3	5832.8	5920.7	5798.8	5495.4	4967.9	4233.5	3969.8	3164.5
17.5°	5659.8	5648.5	5708.0	5980.2	6113.5	6229.8	6039.8	5489.7	4656.0	4420.7	3493.4
20°	5759.1	5696.7	5827.1	6000.1	6309.2	6553.0	6544.5	6014.3	5098.4	4848.8	3819.5
22.5°	6127.7	6079.5	6184.4	6201.4	6416.9	6757.2	6839.4	6442.4	5552.1	5245.8	4171.1
25°	6808.2	6896.1	6771.4	6663.6	6728.8	6952.8	7012.4	6822.4	6008.6	5727.9	4522.7
27.5°	7803.5	7792.2	7545.5	7406.5	7250.6	7222.2	7264.8	7176.9	6368.7	6167.4	4812.0
30°	8872.5	8779.0	8552.1	8217.5	7874.4	7661.7	7602.2	7511.4	6791.2	6499.1	5098.4
32.5°	9723.2	9774.2	9521.9	9085.2	8515.2	8228.9	7942.5	7843.2	7256.2	6998.2	5427.3
35°	10505.8	10437.8	10236.4	9867.8	9357.4	8895.2	8447.2	8234.5	7814.9	7559.7	5790.3
37.5°	11084.3	11169.3	10786.5	10434.9	9927.4	9544.6	9105.0	8640.0	8390.5	8050.2	6232.6
40°	11631.5	11498.3	11240.2	10917.0	10446.3	10154.2	9865.0	9139.1	9003.0	8563.4	6731.7
42.5°	11535.1	11543.6	11401.9	11141.0	10800.7	10633.4	10534.2	9745.9	9558.7	9278.0	7219.4
45°	11141.0	11175.0	11223.2	11095.6	11124.0	10956.7	11223.2	10443.4	10259.1	9961.4	7780.8
47.5°	10707.1	10763.9	10752.5	10985.0	11248.7	11305.5	11971.8	11217.6	11138.2	10973.7	8557.8
50°	9986.9	10009.6	10227.9	10650.4	11010.6	11603.2	12533.3	12062.6	12184.5	11861.2	9482.2
52.5°	8756.3	8838.5	9399.9	10003.9	10729.8	11753.5	12913.2	13318.7	13627.8	13296.0	10369.7
55°	7199.5	7313.0	7865.9	8997.3	10060.6	11526.6	13259.2	13982.2	14608.9	14107.0	10908.5
57.5°	5793.1	5804.4	6300.7	7468.9	9110.7	11081.4	13435.0	14305.5	15147.7	14745.0	11566.3
60°	4415.0	4369.6	4814.8	5827.1	7511.4	9986.9	12995.5	14470.0	15819.7	15587.2	12357.5
62.5°	2841.3	2770.4	3255.2	4242.0	5866.8	8163.6	12116.4	14472.8	16868.9	16781.0	13681.7
65°	1406.4	1358.2	1775.1	2600.2	4060.5	6243.9	10863.1	14418.9	18150.5	18207.3	14971.9
67.5°	742.9	759.9	893.2	1318.5	2342.2	4412.2	8974.6	13786.6	18805.6	19123.1	15283.8
68°	683.4	689.0	794.0	1097.4	2033.1	4091.7	8526.6	13602.3	18856.6	19247.9	15110.8
70°	555.8	564.3	601.1	689.0	1100.2	2662.6	6578.5	12037.0	18088.2	18445.4	13678.8
72.5°	442.4	467.9	490.6	527.4	646.5	1397.9	4091.7	9380.1	14943.5	14983.2	10647.6
75°	337.4	357.3	402.7	433.8	504.7	768.4	1948.0	5719.4	9805.4	9323.4	6272.3
77.5°	260.9	277.9	297.7	340.3	422.5	518.9	595.5	2427.3	4165.5	3428.2	1772.2
80°	156.0	167.3	232.5	266.5	368.6	351.6	235.4	674.9	845.0	666.4	323.3
82.5°	90.7	99.2	133.3	204.2	258.0	190.0	138.9	209.8	207.0	181.5	107.8
85°	2.8	5.7	73.7	121.9	90.7	51.0	85.1	87.9	73.7	68.1	48.2
87.5°	0.0	2.8	19.8	17.0	19.8	11.3	17.0	22.7	28.4	25.5	19.8
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°	1970.7	1970.7	1970.7	1970.7	1970.7	1970.7	1970.7	1970.7	1970.7	1970.7	1970.7
2.5°	1990.6	1928.2	1789.3	1684.3	1570.9	1502.9	1434.8	1392.3	1369.6	1355.4	1366.7
5°	2041.6	1911.2	1687.2	1488.7	1358.2	1270.3	1182.4	1137.1	1094.5	1071.8	1086.0
7.5°	2155.0	1959.4	1587.9	1372.4	1219.3	1083.2	972.6	884.7	833.7	788.3	796.8
10°	2294.0	1987.7	1590.8	1304.4	1083.2	867.7	711.7	601.1	538.8	499.1	496.2
12.5°	2435.8	2098.3	1602.1	1236.3	915.9	652.2	467.9	385.6	348.8	328.9	328.9
15°	2651.3	2197.6	1573.7	1111.5	694.7	425.3	320.4	292.1	277.9	260.9	263.7
17.5°	2838.4	2356.4	1559.6	924.4	476.4	306.2	266.5	235.4	221.2	204.2	204.2
20°	3090.8	2455.6	1483.0	714.6	328.9	255.2	215.5	187.1	164.5	150.3	153.1
22.5°	3320.5	2532.2	1346.9	487.7	252.4	201.3	158.8	130.4	110.6	93.6	96.4
25°	3570.0	2608.7	1148.4	300.6	178.6	124.8	85.1	62.4	42.5	31.2	31.2
27.5°	3748.6	2631.4	890.4	178.6	107.8	56.7	19.8	2.8	0.0	0.0	0.0
30°	3930.1	2639.9	615.3	96.4	42.5	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	4137.1	2637.1	385.6	51.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0
35°	4295.9	2588.9	184.3	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	4536.9	2518.0	56.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	4812.0	2390.4	11.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	5058.7	2260.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	5339.4	2098.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	5832.8	2030.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	6476.5	1976.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	6873.4	1817.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	7080.4	1653.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	7386.7	1573.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	7840.4	1579.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	8549.3	1658.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	8940.6	1579.4	11.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	8608.8	1264.7	53.9	14.2	2.8	0.0	0.0	0.0	0.0	0.0	0.0
68°	8322.4	1162.6	53.9	14.2	2.8	0.0	0.0	0.0	0.0	0.0	0.0
70°	6879.1	757.1	51.0	14.2	5.7	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	5010.5	419.7	42.5	11.3	5.7	0.0	0.0	0.0	0.0	0.0	0.0
75°	2915.0	209.8	31.2	11.3	5.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	759.9	104.9	25.5	14.2	8.5	2.8	0.0	0.0	0.0	0.0	0.0
80°	150.3	68.1	22.7	17.0	11.3	5.7	0.0	0.0	0.0	0.0	0.0
82.5°	70.9	48.2	22.7	17.0	14.2	8.5	2.8	0.0	0.0	0.0	0.0
85°	36.9	22.7	22.7	17.0	17.0	11.3	5.7	0.0	0.0	0.0	0.0
87.5°	17.0	8.5	8.5	8.5	8.5	5.7	2.8	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)