

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: P481964

Luminaire Tested: **IFLD-L-SA7A-727-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481964
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-727-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

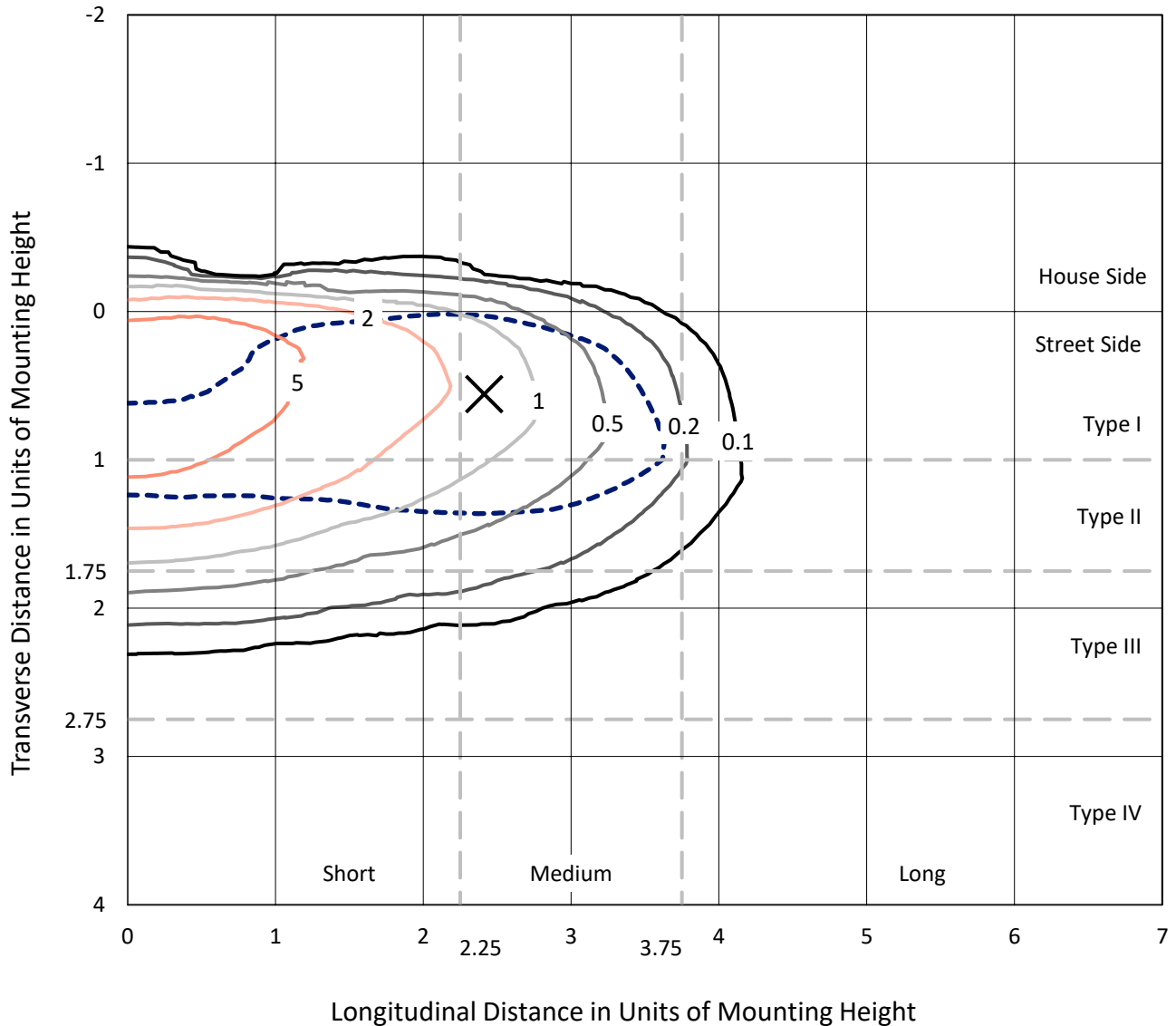
Lumens per Lamp: N/A
Luminaire Lumens: 20580.3 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

Input Watts (W): 217.6
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

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Iso-Footcandle Lines of Horizontal Illumination

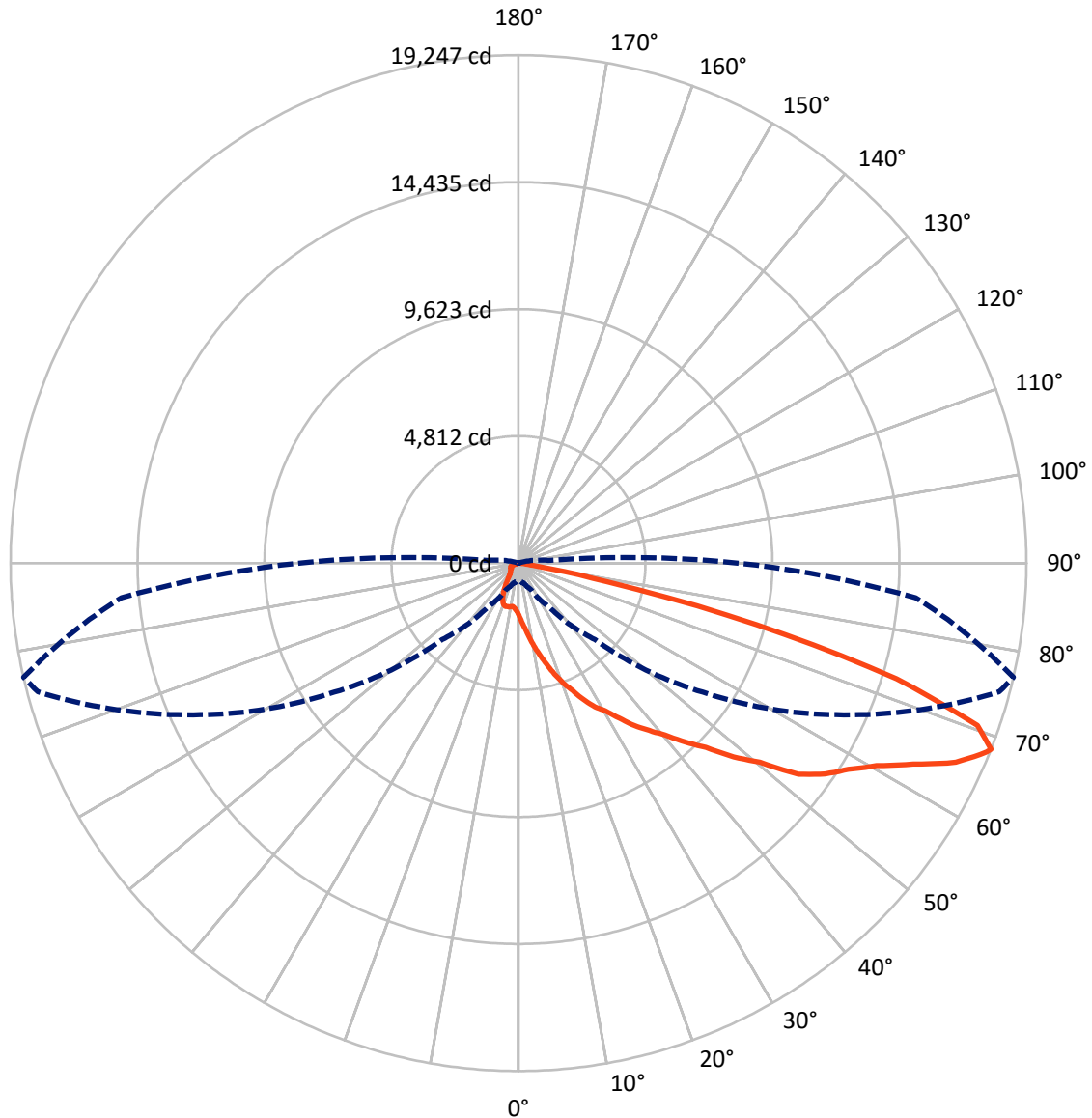
× Max cd
 - - - 1/2 Max cd



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	933.3	0.0	933.3
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	19647.0	0.0	19647.0
	% Fixture	95.5	0.0	95.5
Total	Lumens	20580.3	0.0	20580.3
	% 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°	1645.5	8.0
30°-40°	2868.7	13.9
40°-50°	4201.4	20.4
50°-60°	4936.0	24.0
60°-70°	4168.0	20.3
70°-80°	1615.6	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°	20580.3	100.0
0°-180°	20580.3	100.0

Coefficient of Utilization



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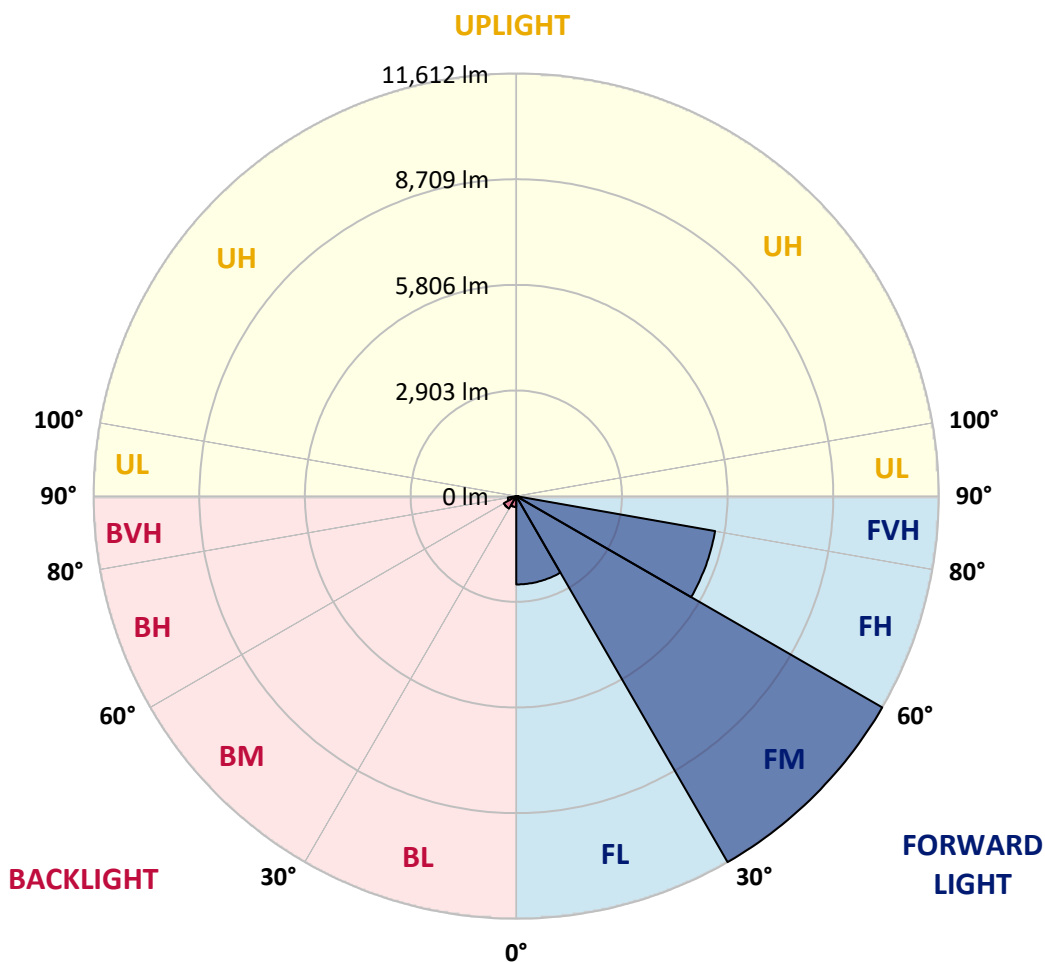
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2426.6	11.8			
FM (30°-60°)	11611.8	56.4			
FH (60°-80°)	5548.0	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°)	235.6	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°	1970.6	1970.6	1970.6	1970.6	1970.6	1970.6	1970.6	1970.6	1970.6	1970.6	1970.6
2.5°	2994.2	2937.5	2877.9	2860.9	2750.3	2625.6	2509.3	2395.9	2205.9	2208.8	2078.3
5°	3859.0	3788.1	3739.9	3728.5	3555.6	3340.1	3164.3	2843.9	2529.2	2458.3	2220.1
7.5°	4570.6	4548.0	4477.1	4417.5	4289.9	4026.2	3819.3	3359.9	2880.7	2801.4	2393.1
10°	5001.6	5035.6	5066.8	4990.3	4891.0	4701.1	4417.5	3921.3	3280.5	3181.3	2617.1
12.5°	5460.9	5404.2	5424.1	5486.5	5356.0	5313.5	4961.9	4499.8	3748.4	3558.4	2900.6
15°	5580.0	5602.7	5650.9	5832.4	5920.3	5798.4	5495.0	4967.6	4233.2	3969.5	3164.3
17.5°	5659.4	5648.1	5707.6	5979.8	6113.1	6229.3	6039.4	5489.3	4655.7	4420.4	3493.2
20°	5758.7	5696.3	5826.7	5999.7	6308.7	6552.6	6544.1	6013.8	5098.0	4848.5	3819.3
22.5°	6127.3	6079.1	6184.0	6201.0	6416.5	6756.7	6838.9	6442.0	5551.7	5245.5	4170.8
25°	6807.8	6895.7	6770.9	6663.1	6728.4	6952.4	7011.9	6821.9	6008.2	5727.5	4522.4
27.5°	7803.0	7791.6	7545.0	7406.0	7250.1	7221.7	7264.3	7176.4	6368.3	6167.0	4811.6
30°	8871.9	8778.3	8551.5	8216.9	7873.9	7661.2	7601.7	7510.9	6790.7	6498.7	5098.0
32.5°	9722.5	9773.6	9521.2	9084.6	8514.7	8228.3	7941.9	7842.7	7255.7	6997.7	5426.9
35°	10505.1	10437.0	10235.7	9867.1	9356.8	8894.6	8446.6	8234.0	7814.3	7559.1	5789.9
37.5°	11083.5	11168.6	10785.8	10434.2	9926.7	9543.9	9104.4	8639.4	8389.9	8049.7	6232.2
40°	11630.7	11497.5	11239.5	10916.2	10445.6	10153.5	9864.3	9138.4	9002.3	8562.9	6731.2
42.5°	11534.3	11542.8	11401.1	11140.2	10800.0	10632.7	10533.4	9745.2	9558.1	9277.4	7218.9
45°	11140.2	11174.2	11222.4	11094.9	11123.2	10955.9	11222.4	10442.7	10258.4	9960.7	7780.3
47.5°	10706.4	10763.1	10751.8	10984.3	11248.0	11304.7	11971.0	11216.8	11137.4	10972.9	8557.2
50°	9986.2	10008.9	10227.2	10649.7	11009.8	11602.4	12532.4	12061.7	12183.6	11860.4	9481.5
52.5°	8755.7	8837.9	9399.3	10003.2	10729.1	11752.7	12912.3	13317.8	13626.9	13295.1	10369.0
55°	7199.0	7312.5	7865.4	8996.7	10059.9	11525.8	13258.3	13981.3	14607.9	14106.0	10907.7
57.5°	5792.7	5804.0	6300.2	7468.4	9110.1	11080.7	13434.0	14304.5	15146.6	14744.0	11565.5
60°	4414.7	4369.3	4814.5	5826.7	7510.9	9986.2	12994.6	14469.0	15818.6	15586.1	12356.6
62.5°	2841.1	2770.2	3255.0	4241.7	5866.4	8163.1	12115.6	14471.8	16867.7	16779.8	13680.7
65°	1406.3	1358.1	1774.9	2600.0	4060.3	6243.5	10862.4	14417.9	18149.3	18206.0	14970.8
67.5°	742.9	759.9	893.1	1318.5	2342.0	4411.9	8974.0	13785.6	18804.3	19121.8	15282.7
68°	683.3	689.0	793.9	1097.3	2033.0	4091.5	8526.0	13601.3	18855.3	19246.6	15109.8
70°	555.7	564.2	601.1	689.0	1100.1	2662.4	6578.1	12036.2	18086.9	18444.2	13677.9
72.5°	442.3	467.8	490.5	527.4	646.5	1397.8	4091.5	9379.4	14942.5	14982.2	10646.9
75°	337.4	357.3	402.6	433.8	504.7	768.4	1947.9	5719.0	9804.8	9322.7	6271.9
77.5°	260.9	277.9	297.7	340.2	422.5	518.9	595.4	2427.1	4165.2	3428.0	1772.1
80°	155.9	167.3	232.5	266.5	368.6	351.6	235.3	674.8	844.9	666.3	323.2
82.5°	90.7	99.2	133.3	204.1	258.0	190.0	138.9	209.8	207.0	181.5	107.7
85°	2.8	5.7	73.7	121.9	90.7	51.0	85.1	87.9	73.7	68.0	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°	1970.6	1970.6	1970.6	1970.6	1970.6	1970.6	1970.6	1970.6	1970.6	1970.6	1970.6
2.5°	1990.4	1928.1	1789.1	1684.2	1570.8	1502.8	1434.7	1392.2	1369.5	1355.3	1366.7
5°	2041.5	1911.0	1687.1	1488.6	1358.1	1270.3	1182.4	1137.0	1094.5	1071.8	1086.0
7.5°	2154.9	1959.2	1587.8	1372.3	1219.2	1083.1	972.5	884.6	833.6	788.2	796.7
10°	2293.8	1987.6	1590.6	1304.3	1083.1	867.6	711.7	601.1	538.7	499.0	496.2
12.5°	2435.6	2098.2	1602.0	1236.2	915.8	652.1	467.8	385.6	348.8	328.9	328.9
15°	2651.1	2197.4	1573.6	1111.5	694.7	425.3	320.4	292.0	277.9	260.9	263.7
17.5°	2838.2	2356.2	1559.5	924.3	476.3	306.2	266.5	235.3	221.2	204.1	204.1
20°	3090.6	2455.4	1482.9	714.5	328.9	255.2	215.5	187.1	164.5	150.3	153.1
22.5°	3320.2	2532.0	1346.8	487.7	252.3	201.3	158.8	130.4	110.6	93.6	96.4
25°	3569.7	2608.6	1148.3	300.6	178.6	124.8	85.1	62.4	42.5	31.2	31.2
27.5°	3748.4	2631.2	890.3	178.6	107.7	56.7	19.8	2.8	0.0	0.0	0.0
30°	3929.8	2639.7	615.3	96.4	42.5	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	4136.8	2636.9	385.6	51.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0
35°	4295.6	2588.7	184.3	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	4536.6	2517.8	56.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	4811.6	2390.2	11.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	5058.3	2259.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	5339.0	2098.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	5832.4	2030.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	6476.0	1976.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	6873.0	1817.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	7080.0	1653.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	7386.2	1573.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	7839.8	1579.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	8548.7	1658.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	8940.0	1579.3	11.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	8608.2	1264.6	53.9	14.2	2.8	0.0	0.0	0.0	0.0	0.0	0.0
68°	8321.8	1162.5	53.9	14.2	2.8	0.0	0.0	0.0	0.0	0.0	0.0
70°	6878.6	757.0	51.0	14.2	5.7	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	5010.1	419.6	42.5	11.3	5.7	0.0	0.0	0.0	0.0	0.0	0.0
75°	2914.8	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	68.0	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)