

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: P481962

Luminaire Tested: **IFLD-M-SA4D-727-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481962
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-727-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (64) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

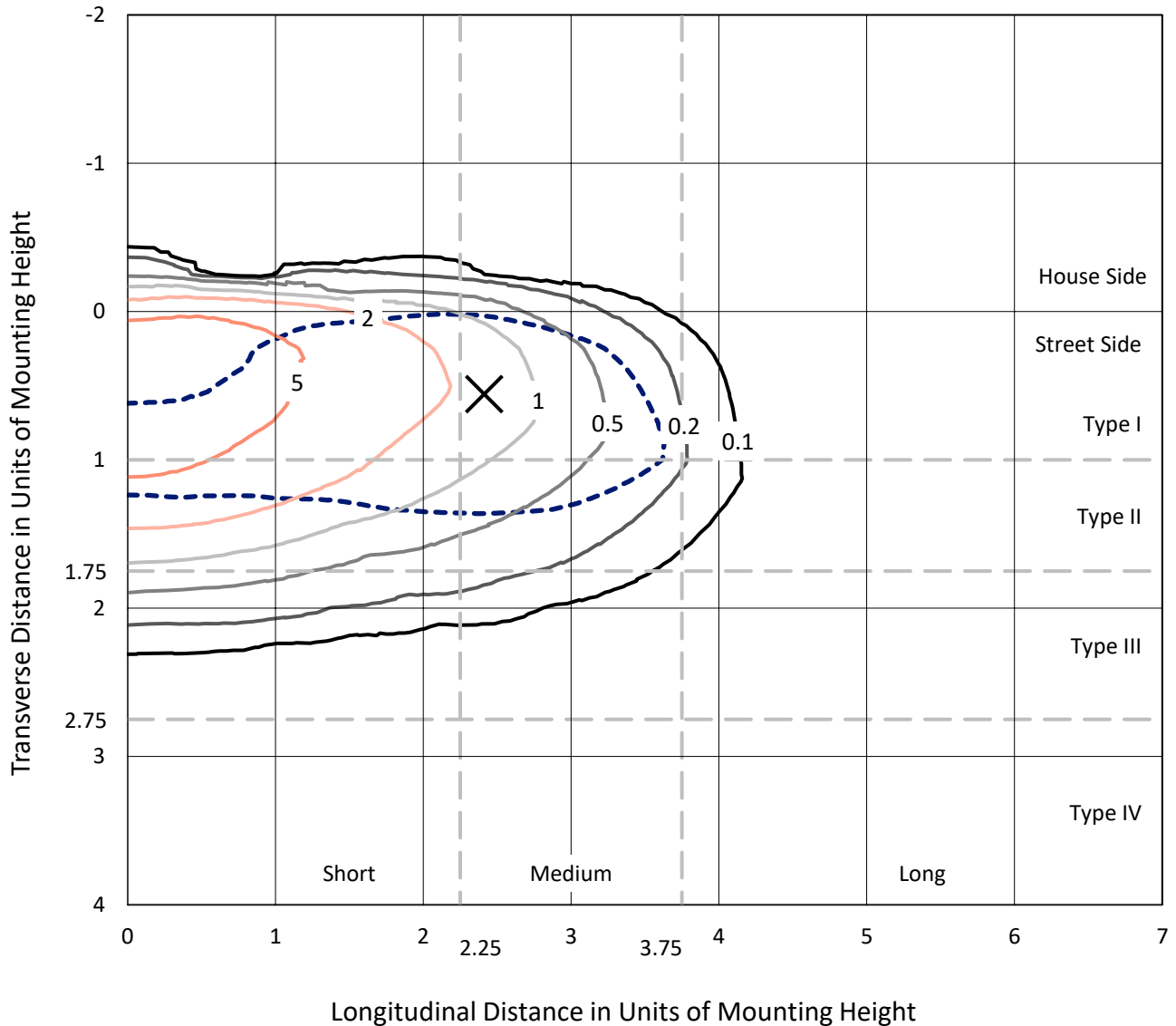
Lumens per Lamp: N/A
Luminaire Lumens: 20569.4 lumens
Efficiency: N/A
Efficacy: 82.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

Input Watts (W): 249.7
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

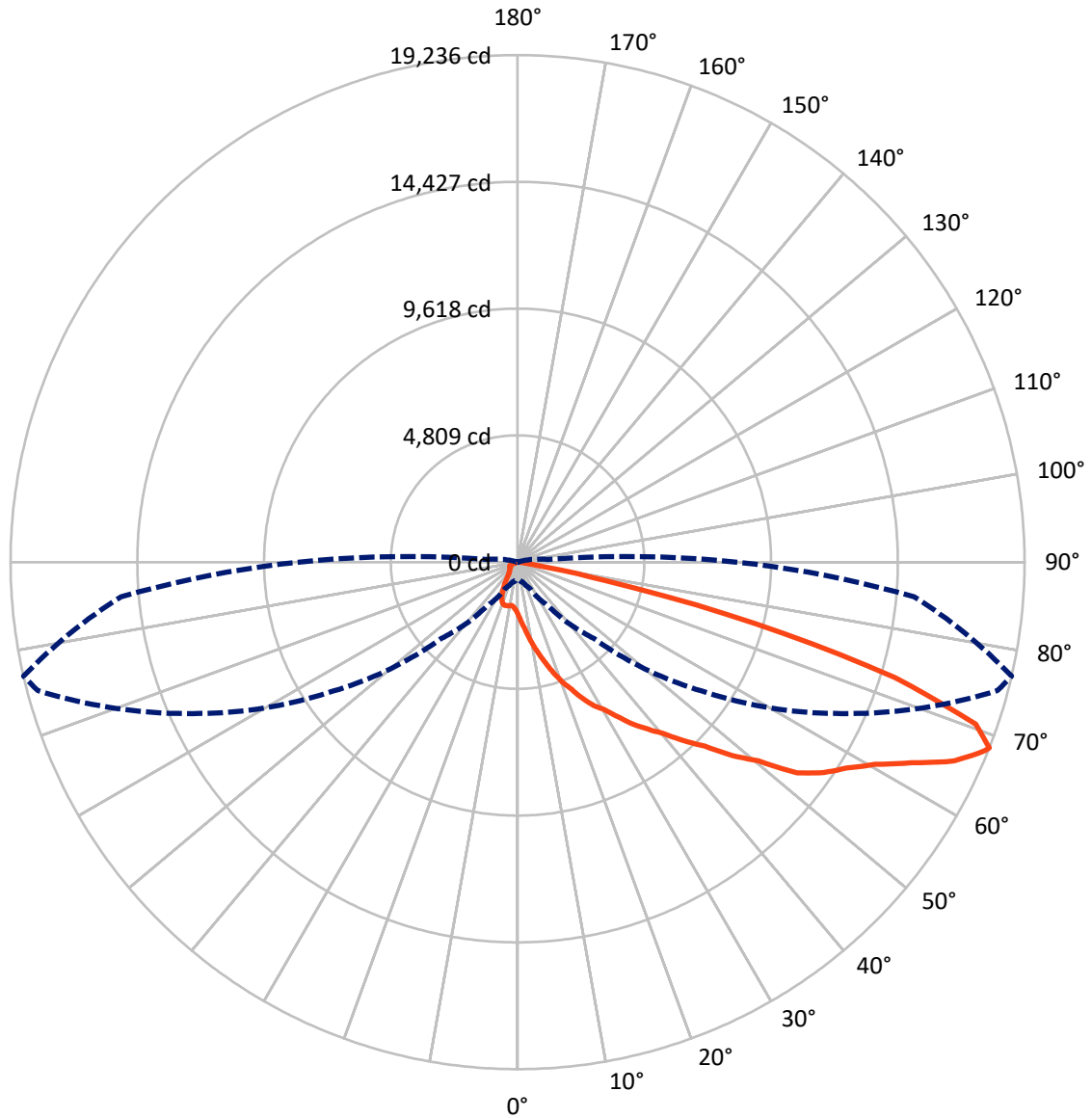
× Max cd
 - - - 1/2 Max cd



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	932.8	0.0	932.8
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	19636.6	0.0	19636.6
	% Fixture	95.5	0.0	95.5
Total	Lumens	20569.4	0.0	20569.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.1	1.1
10°-20°	848.6	4.1
20°-30°	1644.6	8.0
30°-40°	2867.1	13.9
40°-50°	4199.2	20.4
50°-60°	4933.4	24.0
60°-70°	4165.8	20.3
70°-80°	1614.8	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°	20569.4	100.0
0°-180°	20569.4	100.0

Coefficient of Utilization



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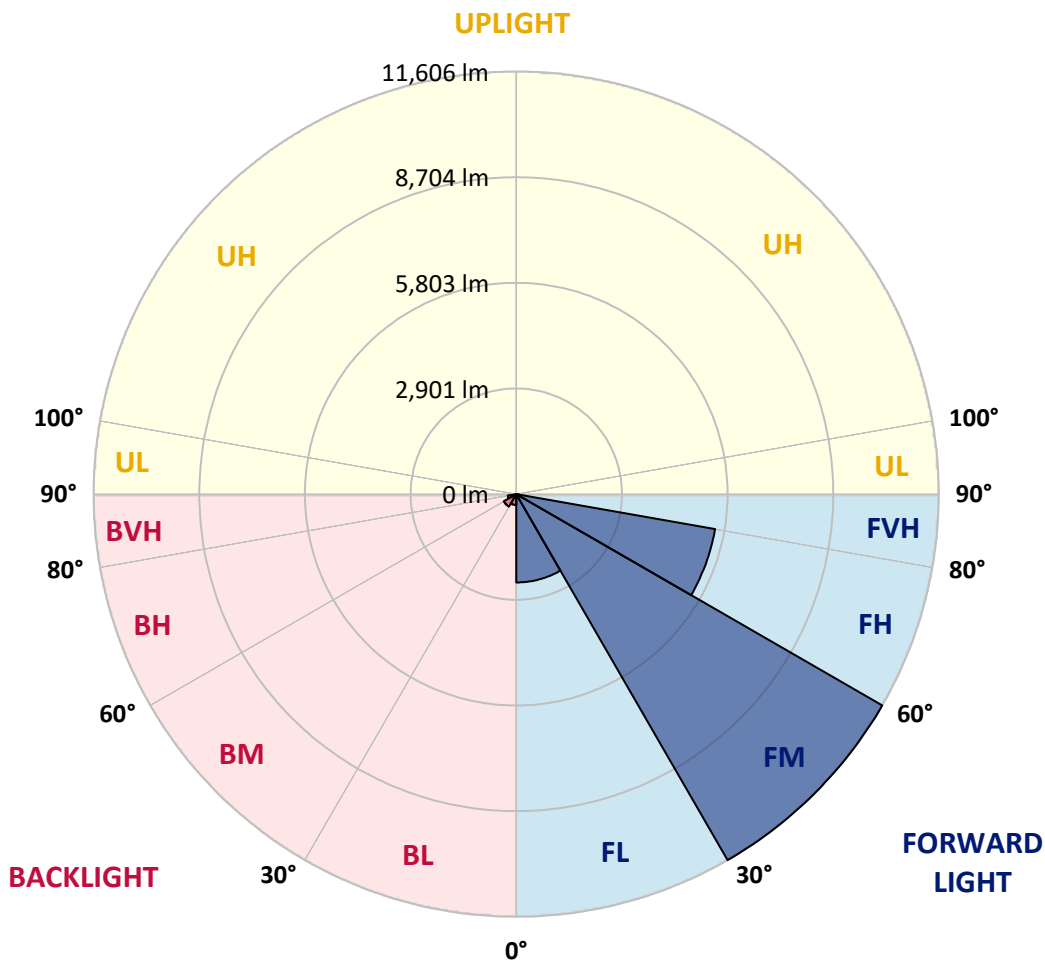
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2425.3	11.8			
FM (30°-60°)	11605.6	56.4			
FH (60°-80°)	5545.1	27.0			G3/7500
FVH (80°-90°)	60.6	0.3			G1/100
BL (0°-30°)	298.0	1.4	B1/500		
BM (30°-60°)	394.2	1.9	B1/1000		
BH (60°-80°)	235.5	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°	1969.5	1969.5	1969.5	1969.5	1969.5	1969.5	1969.5	1969.5	1969.5	1969.5	1969.5
2.5°	2992.6	2935.9	2876.4	2859.4	2748.9	2624.2	2508.0	2394.6	2204.8	2207.6	2077.2
5°	3856.9	3786.1	3737.9	3726.6	3553.7	3338.3	3162.6	2842.4	2527.8	2457.0	2218.9
7.5°	4568.2	4545.5	4474.7	4415.2	4287.7	4024.1	3817.2	3358.1	2879.2	2799.9	2391.8
10°	4999.0	5033.0	5064.1	4987.6	4888.4	4698.6	4415.2	3919.3	3278.8	3179.6	2615.7
12.5°	5458.1	5401.4	5421.2	5483.6	5353.2	5310.7	4959.3	4497.4	3746.4	3556.5	2899.1
15°	5577.1	5599.7	5647.9	5829.3	5917.1	5795.3	5492.1	4965.0	4231.0	3967.4	3162.6
17.5°	5656.4	5645.1	5704.6	5976.7	6109.8	6226.0	6036.2	5486.4	4653.2	4418.0	3491.3
20°	5755.6	5693.3	5823.6	5996.5	6305.4	6549.1	6540.6	6010.7	5095.3	4845.9	3817.2
22.5°	6124.0	6075.8	6180.7	6197.7	6413.1	6753.1	6835.3	6438.6	5548.7	5242.7	4168.6
25°	6804.1	6892.0	6767.3	6659.6	6724.8	6948.7	7008.2	6818.3	6005.0	5724.4	4520.0
27.5°	7798.8	7787.5	7541.0	7402.1	7246.2	7217.9	7260.4	7172.5	6364.9	6163.7	4809.1
30°	8867.2	8773.7	8547.0	8212.6	7869.7	7657.1	7597.6	7506.9	6787.1	6495.3	5095.3
32.5°	9717.4	9768.4	9516.2	9079.8	8510.1	8223.9	7937.7	7838.5	7251.9	6994.0	5424.0
35°	10499.5	10431.5	10230.3	9861.9	9351.8	8889.9	8442.1	8229.6	7810.2	7555.1	5786.8
37.5°	11077.6	11162.7	10780.1	10428.7	9921.4	9538.8	9099.6	8634.8	8385.5	8045.4	6228.9
40°	11624.6	11491.4	11233.5	10910.4	10440.0	10148.1	9859.1	9133.6	8997.6	8558.3	6727.6
42.5°	11528.2	11536.7	11395.0	11134.3	10794.2	10627.0	10527.9	9740.0	9553.0	9272.5	7215.1
45°	11134.3	11168.3	11216.5	11089.0	11117.3	10950.1	11216.5	10437.2	10253.0	9955.4	7776.2
47.5°	10700.7	10757.4	10746.1	10978.4	11242.0	11298.7	11964.6	11210.8	11131.5	10967.1	8552.6
50°	9980.9	10003.6	10221.8	10644.1	11004.0	11596.2	12525.7	12055.3	12177.2	11854.1	9476.5
52.5°	8751.0	8833.2	9394.3	9997.9	10723.4	11746.4	12905.5	13310.7	13619.6	13288.1	10363.5
55°	7195.2	7308.6	7861.2	8991.9	10054.6	11519.7	13251.2	13973.9	14600.1	14098.6	10901.9
57.5°	5789.6	5801.0	6296.9	7464.4	9105.3	11074.8	13426.9	14296.9	15138.6	14736.2	11559.4
60°	4412.4	4367.0	4811.9	5823.6	7506.9	9980.9	12987.7	14461.3	15810.2	15577.8	12350.0
62.5°	2839.5	2768.7	3253.3	4239.5	5863.3	8158.7	12109.2	14464.1	16858.8	16770.9	13673.5
65°	1405.6	1357.4	1774.0	2598.7	4058.1	6240.2	10856.6	14410.3	18139.7	18196.3	14962.9
67.5°	742.5	759.5	892.7	1317.8	2340.8	4409.5	8969.2	13778.3	18794.3	19111.7	15274.6
68°	683.0	688.6	793.5	1096.7	2031.9	4089.3	8521.5	13594.1	18845.3	19236.4	15101.7
70°	555.4	563.9	600.8	688.6	1099.5	2661.0	6574.6	12029.8	18077.3	18434.4	13670.6
72.5°	442.1	467.6	490.3	527.1	646.1	1397.1	4089.3	9374.5	14934.5	14974.2	10641.2
75°	337.2	357.1	402.4	433.6	504.4	768.0	1946.9	5715.9	9799.6	9317.8	6268.5
77.5°	260.7	277.7	297.6	340.1	422.2	518.6	595.1	2425.8	4163.0	3426.2	1771.2
80°	155.9	167.2	232.4	266.4	368.4	351.4	235.2	674.5	844.5	666.0	323.1
82.5°	90.7	99.2	133.2	204.0	257.9	189.9	138.9	209.7	206.9	181.4	107.7
85°	2.8	5.7	73.7	121.9	90.7	51.0	85.0	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	28.3	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°	1969.5	1969.5	1969.5	1969.5	1969.5	1969.5	1969.5	1969.5	1969.5	1969.5	1969.5
2.5°	1989.4	1927.0	1788.2	1683.3	1570.0	1502.0	1433.9	1391.4	1368.8	1354.6	1365.9
5°	2040.4	1910.0	1686.2	1487.8	1357.4	1269.6	1181.7	1136.4	1093.9	1071.2	1085.4
7.5°	2153.7	1958.2	1587.0	1371.6	1218.6	1082.5	972.0	884.2	833.2	787.8	796.3
10°	2292.6	1986.5	1589.8	1303.6	1082.5	867.2	711.3	600.8	538.4	498.8	495.9
12.5°	2434.3	2097.1	1601.1	1235.6	915.3	651.8	467.6	385.4	348.6	328.7	328.7
15°	2649.7	2196.3	1572.8	1110.9	694.3	425.1	320.2	291.9	277.7	260.7	263.6
17.5°	2836.7	2355.0	1558.6	923.8	476.1	306.1	266.4	235.2	221.0	204.0	204.0
20°	3088.9	2454.1	1482.1	714.1	328.7	255.0	215.4	187.0	164.4	150.2	153.0
22.5°	3318.5	2530.7	1346.1	487.4	252.2	201.2	158.7	130.4	110.5	93.5	96.4
25°	3567.9	2607.2	1147.7	300.4	178.5	124.7	85.0	62.3	42.5	31.2	31.2
27.5°	3746.4	2629.8	889.8	178.5	107.7	56.7	19.8	2.8	0.0	0.0	0.0
30°	3927.8	2638.3	615.0	96.4	42.5	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	4134.6	2635.5	385.4	51.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0
35°	4293.3	2587.3	184.2	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	4534.2	2516.5	56.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	4809.1	2389.0	11.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	5055.6	2258.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	5336.2	2097.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	5829.3	2029.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	6472.6	1975.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	6869.3	1816.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	7076.2	1652.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	7382.3	1572.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	7835.7	1578.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	8544.1	1657.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	8935.2	1578.5	11.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	8603.7	1263.9	53.8	14.2	2.8	0.0	0.0	0.0	0.0	0.0	0.0
68°	8317.4	1161.9	53.8	14.2	2.8	0.0	0.0	0.0	0.0	0.0	0.0
70°	6875.0	756.6	51.0	14.2	5.7	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	5007.5	419.4	42.5	11.3	5.7	0.0	0.0	0.0	0.0	0.0	0.0
75°	2913.2	209.7	31.2	11.3	5.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	759.5	104.9	25.5	14.2	8.5	2.8	0.0	0.0	0.0	0.0	0.0
80°	150.2	68.0	22.7	17.0	11.3	5.7	0.0	0.0	0.0	0.0	0.0
82.5°	70.8	48.2	22.7	17.0	14.2	8.5	2.8	0.0	0.0	0.0	0.0
85°	36.8	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)