

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: P482082

Luminaire Tested: **IFLD-L-SA7B-740-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482082
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-740-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

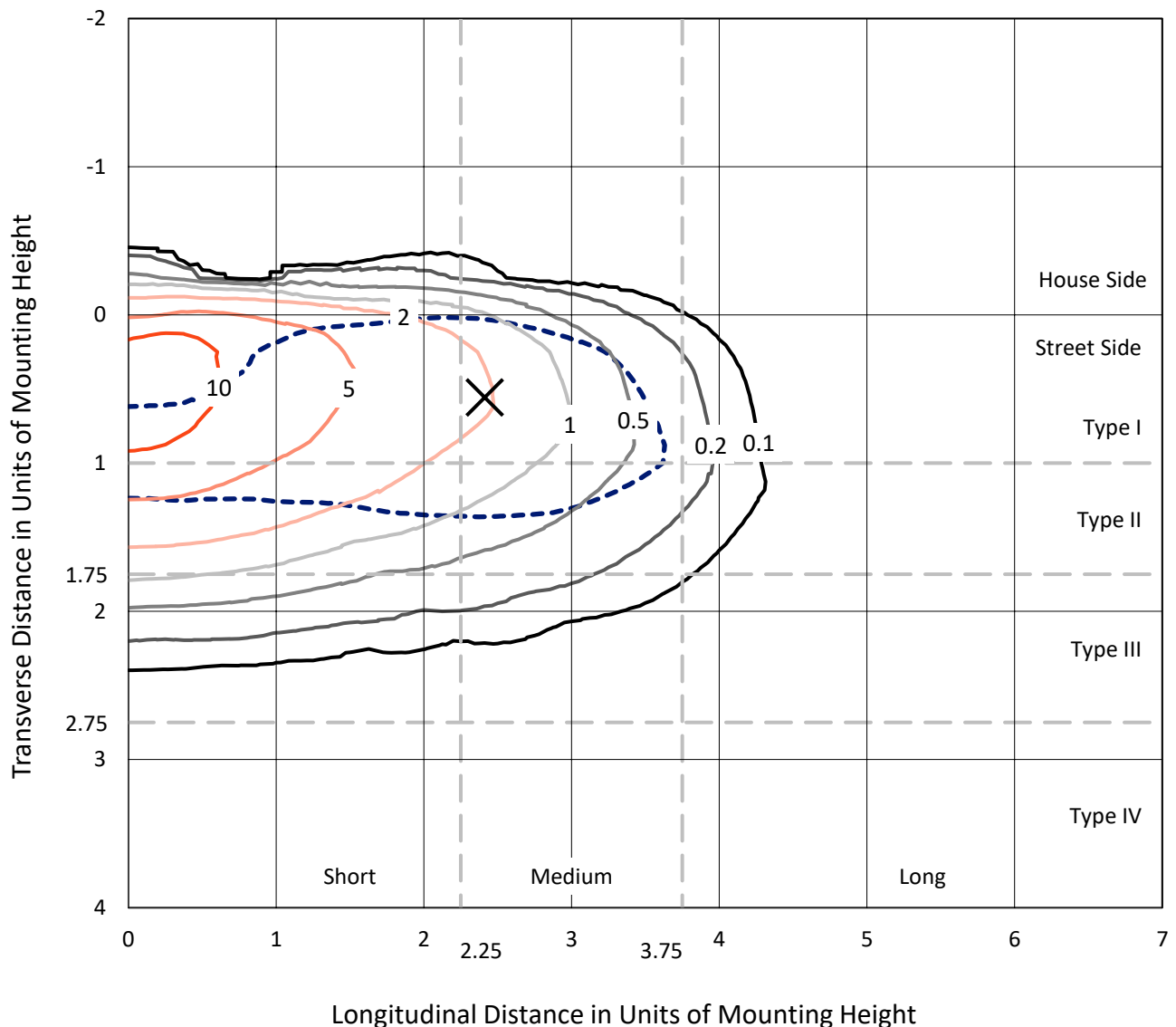
Lumens per Lamp: N/A
Luminaire Lumens: 27998.5 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G4

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

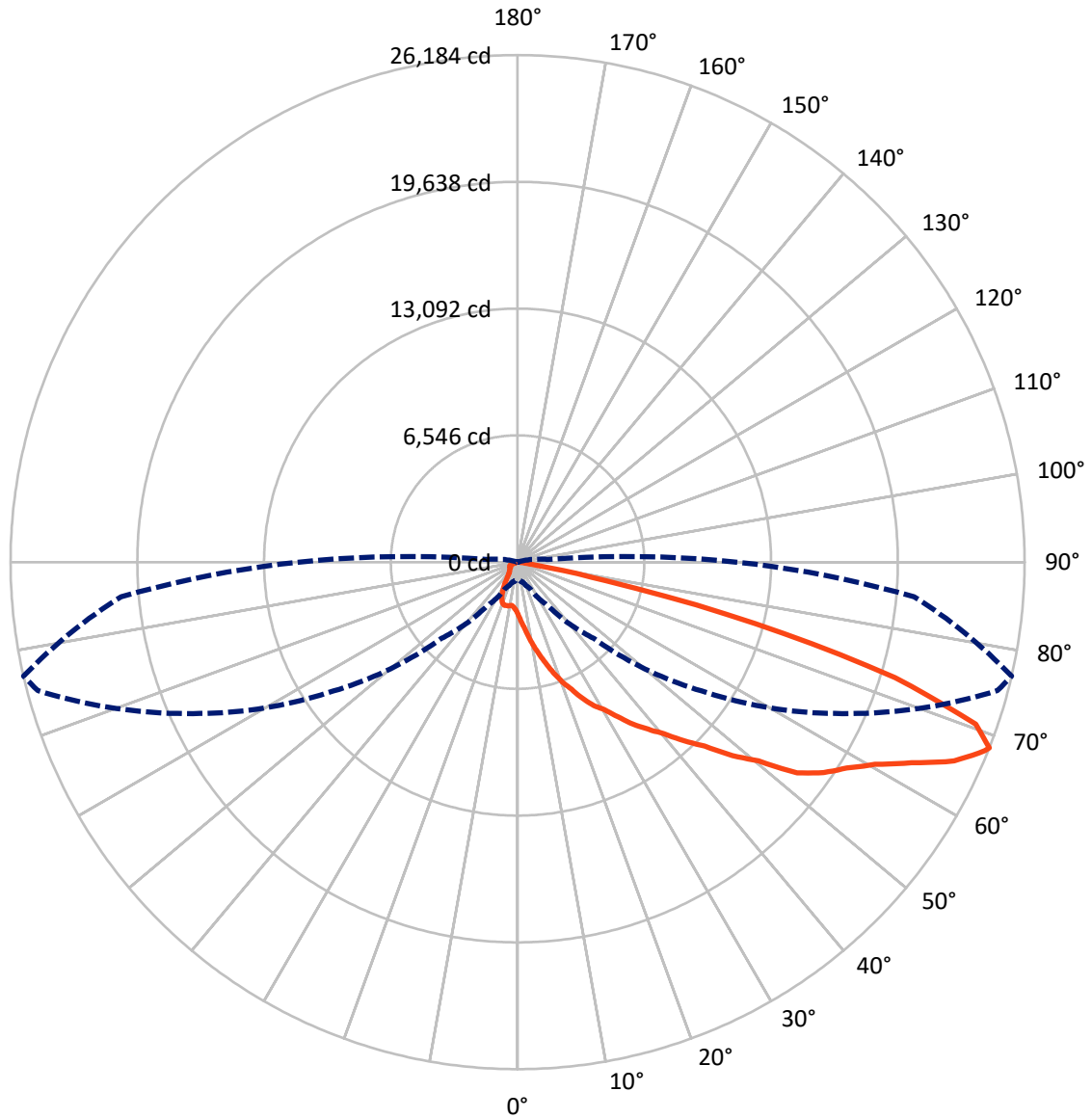
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 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	1269.7	0.0	1269.7
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	26728.8	0.0	26728.8
	% Fixture	95.5	0.0	95.5
Total	Lumens	27998.5	0.0	27998.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.2	1.1
10°-20°	1155.1	4.1
20°-30°	2238.6	8.0
30°-40°	3902.7	13.9
40°-50°	5715.9	20.4
50°-60°	6715.2	24.0
60°-70°	5670.4	20.3
70°-80°	2198.0	7.9
80°-90°	89.4	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°	27998.5	100.0
0°-180°	27998.5	100.0

Coefficient of Utilization



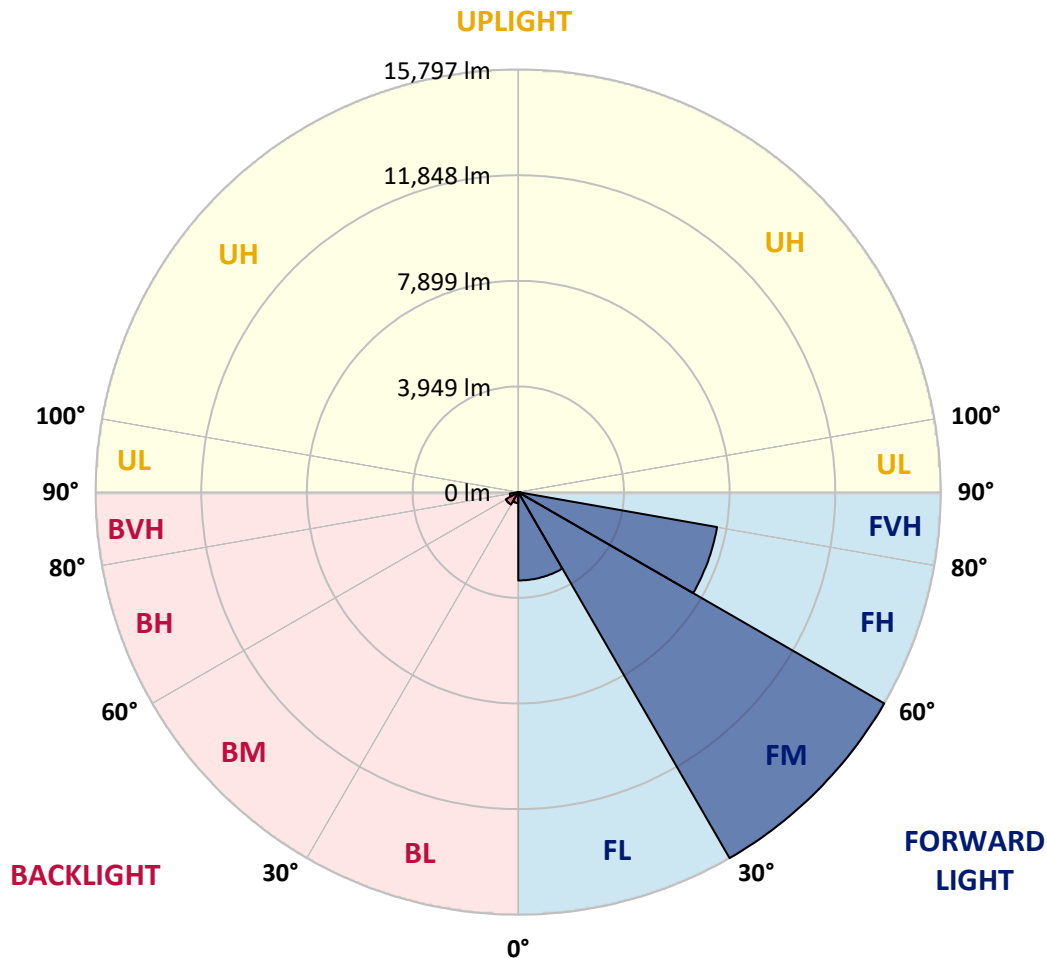
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3301.3	11.8			
FM (30°-60°)	15797.2	56.4			
FH (60°-80°)	7547.8	27.0			G4/12000
FVH (80°-90°)	82.5	0.3			G1/100
BL (0°-30°)	405.7	1.4	B1/500		
BM (30°-60°)	536.5	1.9	B1/1000		
BH (60°-80°)	320.6	1.1	B1/500		G1/500
BVH (80°-90°)	6.9	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-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2680.9	2680.9	2680.9	2680.9	2680.9	2680.9	2680.9	2680.9	2680.9	2680.9	2680.9
2.5°	4073.4	3996.3	3915.3	3892.1	3741.7	3572.0	3413.8	3259.5	3001.1	3004.9	2827.5
5°	5249.9	5153.5	5087.9	5072.5	4837.2	4544.0	4304.9	3869.0	3440.8	3344.4	3020.3
7.5°	6218.1	6187.3	6090.8	6009.8	5836.3	5477.5	5195.9	4571.0	3919.1	3811.1	3255.7
10°	6804.5	6850.8	6893.2	6789.0	6654.0	6395.6	6009.8	5334.8	4463.0	4328.0	3560.4
12.5°	7429.4	7352.2	7379.2	7464.1	7286.6	7228.8	6750.5	6121.7	5099.5	4841.0	3946.1
15°	7591.4	7622.2	7687.8	7934.7	8054.3	7888.4	7475.7	6758.2	5759.1	5400.4	4304.9
17.5°	7699.4	7684.0	7765.0	8135.3	8316.6	8474.7	8216.3	7467.9	6333.9	6013.7	4752.3
20°	7834.4	7749.5	7927.0	8162.3	8582.7	8914.5	8902.9	8181.6	6935.6	6596.2	5195.9
22.5°	8335.9	8270.3	8413.0	8436.1	8729.3	9192.2	9304.1	8764.0	7552.8	7136.2	5674.2
25°	9261.6	9381.2	9211.5	9064.9	9153.6	9458.4	9539.4	9280.9	8173.8	7792.0	6152.6
27.5°	10615.6	10600.2	10264.6	10075.5	9863.4	9824.8	9882.7	9763.1	8663.7	8389.9	6546.0
30°	12069.8	11942.5	11633.9	11178.8	10712.0	10422.7	10341.7	10218.3	9238.5	8841.2	6935.6
32.5°	13227.0	13296.5	12953.2	12359.1	11583.8	11194.2	10804.6	10669.6	9871.1	9520.1	7383.1
35°	14291.7	14199.1	13925.2	13423.8	12729.4	12100.7	11491.2	11201.9	10631.0	10283.8	7876.8
37.5°	15078.6	15194.3	14673.6	14195.3	13504.8	12984.0	12386.1	11753.5	11414.1	10951.2	8478.6
40°	15823.1	15641.8	15290.8	14851.0	14210.7	13813.4	13419.9	12432.4	12247.3	11649.4	9157.5
42.5°	15691.9	15703.5	15510.6	15155.7	14692.9	14465.3	14330.3	13257.9	13003.3	12621.4	9821.0
45°	15155.7	15202.0	15267.6	15094.0	15132.6	14905.0	15267.6	14206.8	13956.1	13551.1	10584.7
47.5°	14565.6	14642.7	14627.3	14943.6	15302.3	15379.5	16286.0	15259.9	15151.9	14928.2	11641.7
50°	13585.8	13616.6	13913.7	14488.4	14978.3	15784.5	17049.7	16409.4	16575.3	16135.5	12899.2
52.5°	11911.7	12023.5	12787.3	13608.9	14596.4	15988.9	17566.6	18118.2	18538.7	18087.4	14106.5
55°	9794.0	9948.3	10700.4	12239.5	13686.1	15680.4	18037.2	19020.9	19873.4	19190.6	14839.4
57.5°	7880.7	7896.1	8571.2	10160.4	12393.8	15074.7	18276.4	19460.6	20606.3	20058.5	15734.4
60°	6006.0	5944.3	6549.9	7927.0	10218.3	13585.8	17678.5	19684.3	21520.5	21204.2	16810.6
62.5°	3865.1	3768.7	4428.3	5770.7	7981.0	11105.5	16482.7	19688.2	22947.7	22828.1	18612.0
65°	1913.3	1847.7	2414.7	3537.2	5523.8	8494.0	14777.7	19614.9	24691.3	24768.4	20367.1
67.5°	1010.6	1033.8	1215.1	1793.7	3186.2	6002.1	12208.7	18754.7	25582.3	26014.3	20791.4
68°	929.6	937.3	1080.1	1492.8	2765.8	5566.2	11599.2	18504.0	25651.8	26184.1	20556.1
70°	756.1	767.6	817.8	937.3	1496.7	3622.1	8949.2	16374.7	24606.4	25092.4	18608.1
72.5°	601.8	636.5	667.3	717.5	879.5	1901.7	5566.2	12760.3	20328.5	20382.5	14484.6
75°	459.0	486.0	547.8	590.2	686.6	1045.4	2650.0	7780.4	13338.9	12683.2	8532.6
77.5°	354.9	378.0	405.0	462.9	574.8	705.9	810.1	3301.9	5666.5	4663.6	2410.9
80°	212.2	227.6	316.3	362.6	501.5	478.3	320.2	918.1	1149.5	906.5	439.7
82.5°	123.4	135.0	181.3	277.7	351.0	258.4	189.0	285.4	281.6	246.9	146.6
85°	3.9	7.7	100.3	165.9	123.4	69.4	115.7	119.6	100.3	92.6	65.6
87.5°	0.0	3.9	27.0	23.1	27.0	15.4	23.1	30.9	38.6	34.7	27.0
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°	2680.9	2680.9	2680.9	2680.9	2680.9	2680.9	2680.9	2680.9	2680.9	2680.9	2680.9
2.5°	2707.9	2623.0	2434.0	2291.3	2137.0	2044.4	1951.8	1894.0	1863.1	1843.8	1859.3
5°	2777.3	2599.9	2295.2	2025.1	1847.7	1728.1	1608.5	1546.8	1489.0	1458.1	1477.4
7.5°	2931.6	2665.5	2160.1	1867.0	1658.7	1473.5	1323.1	1203.5	1134.1	1072.4	1083.9
10°	3120.6	2704.0	2164.0	1774.4	1473.5	1180.4	968.2	817.8	732.9	678.9	675.0
12.5°	3313.5	2854.5	2179.4	1681.8	1245.9	887.2	636.5	524.6	474.5	447.5	447.5
15°	3606.7	2989.5	2140.9	1512.1	945.1	578.6	435.9	397.3	378.0	354.9	358.7
17.5°	3861.3	3205.5	2121.6	1257.5	648.0	416.6	362.6	320.2	300.9	277.7	277.7
20°	4204.6	3340.5	2017.4	972.1	447.5	347.2	293.2	254.6	223.7	204.4	208.3
22.5°	4517.0	3444.7	1832.3	663.5	343.3	273.9	216.0	177.4	150.4	127.3	131.2
25°	4856.5	3548.8	1562.2	408.9	243.0	169.7	115.7	84.9	57.9	42.4	42.4
27.5°	5099.5	3579.7	1211.2	243.0	146.6	77.1	27.0	3.9	0.0	0.0	0.0
30°	5346.4	3591.2	837.1	131.2	57.9	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	5628.0	3587.4	524.6	69.4	3.9	0.0	0.0	0.0	0.0	0.0	0.0
35°	5844.0	3521.8	250.7	7.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	6171.8	3425.4	77.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	6546.0	3251.8	15.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	6881.6	3074.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	7263.5	2854.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	7934.7	2761.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	8810.3	2688.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	9350.4	2472.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	9631.9	2248.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	10048.5	2140.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	10665.7	2148.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	11630.1	2256.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	12162.4	2148.6	15.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	11711.1	1720.4	73.3	19.3	3.9	0.0	0.0	0.0	0.0	0.0	0.0
68°	11321.5	1581.5	73.3	19.3	3.9	0.0	0.0	0.0	0.0	0.0	0.0
70°	9358.1	1029.9	69.4	19.3	7.7	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	6816.0	570.9	57.9	15.4	7.7	0.0	0.0	0.0	0.0	0.0	0.0
75°	3965.4	285.4	42.4	15.4	7.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1033.8	142.7	34.7	19.3	11.6	3.9	0.0	0.0	0.0	0.0	0.0
80°	204.4	92.6	30.9	23.1	15.4	7.7	0.0	0.0	0.0	0.0	0.0
82.5°	96.4	65.6	30.9	23.1	19.3	11.6	3.9	0.0	0.0	0.0	0.0
85°	50.1	30.9	30.9	23.1	23.1	15.4	7.7	0.0	0.0	0.0	0.0
87.5°	23.1	11.6	11.6	11.6	11.6	7.7	3.9	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)