

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: P481541

Luminaire Tested: **IFLD-L-SA8B-722-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481541
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-722-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (128) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

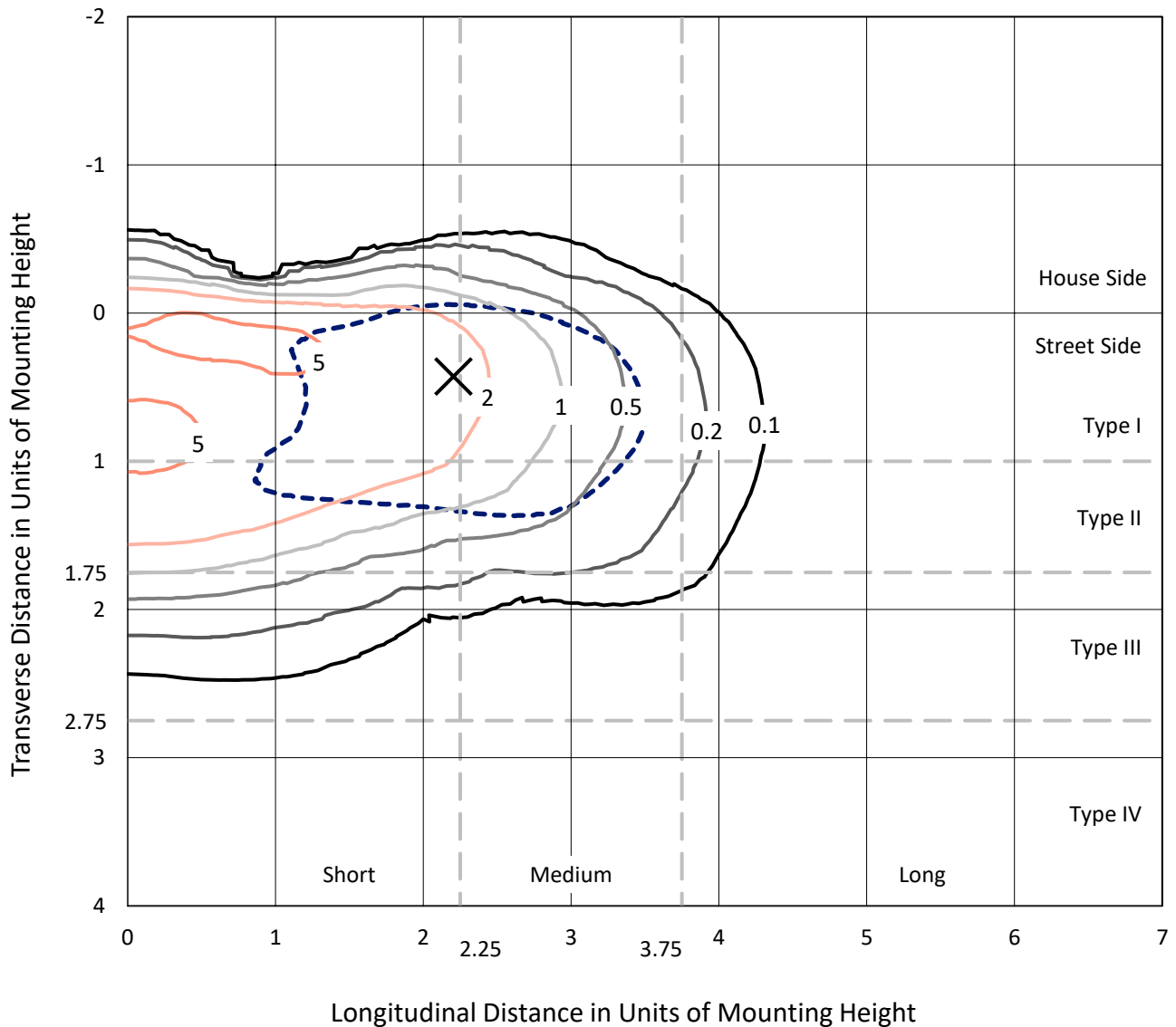
Lumens per Lamp: N/A
Luminaire Lumens: 21588.8 lumens
Efficiency: N/A
Efficacy: 67.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 320
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

REPORT NUMBER: P481541
 CATALOG NUMBER: IFLD-L-SA8B-722-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

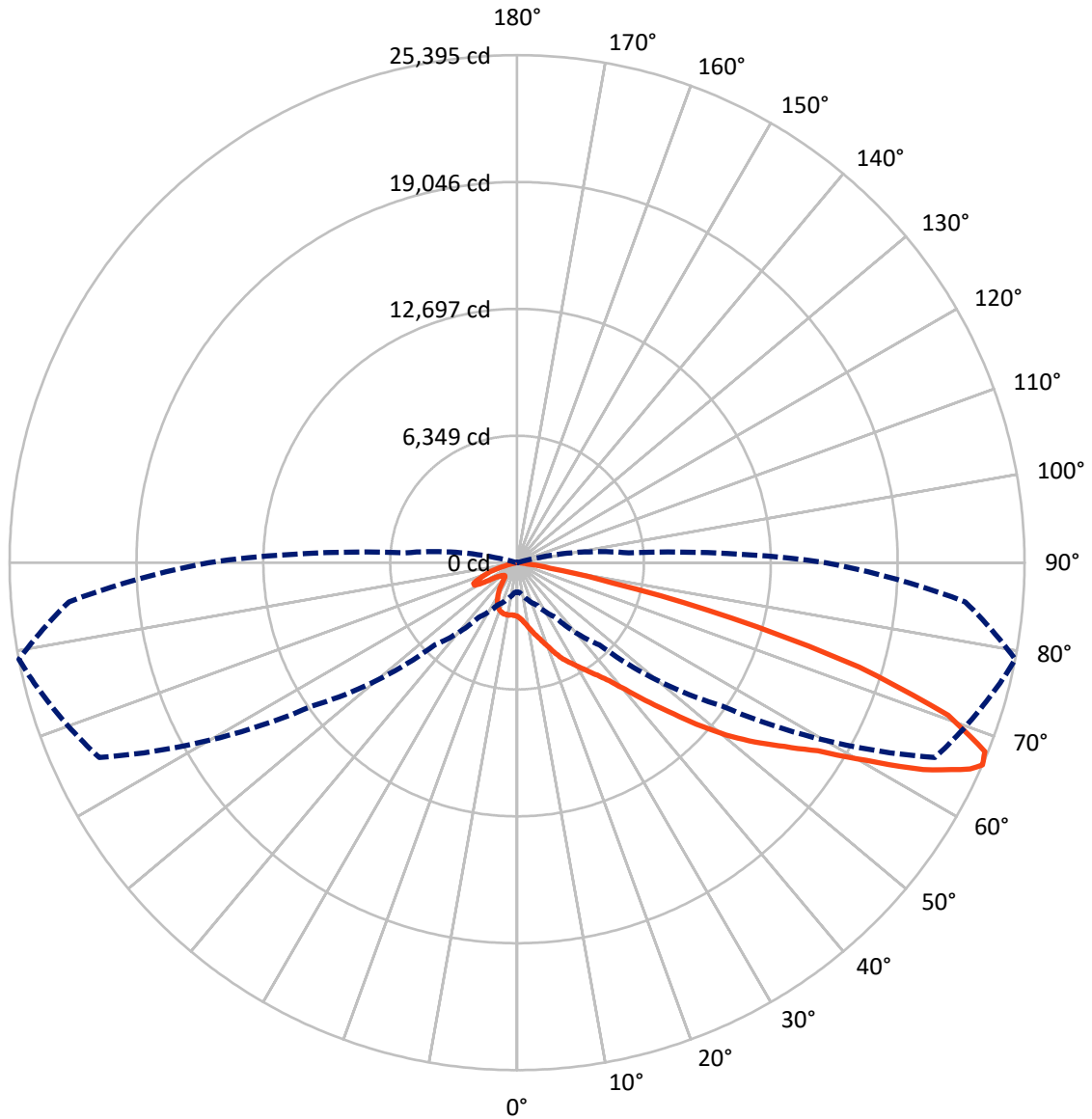
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type II - Short - N/A

REPORT NUMBER: P481541
CATALOG NUMBER: IFLD-L-SA8B-722-U-T2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1621.0	0.0	1621.0
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	19967.7	0.0	19967.7
	% Fixture	92.5	0.0	92.5
Total	Lumens	21588.8	0.0	21588.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.0	1.2
10°-20°	699.1	3.2
20°-30°	1161.3	5.4
30°-40°	1994.7	9.2
40°-50°	3613.7	16.7
50°-60°	5712.3	26.5
60°-70°	5812.7	26.9
70°-80°	2216.7	10.3
80°-90°	124.3	0.6
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°	21588.8	100.0
0°-180°	21588.8	100.0

Coefficient of Utilization



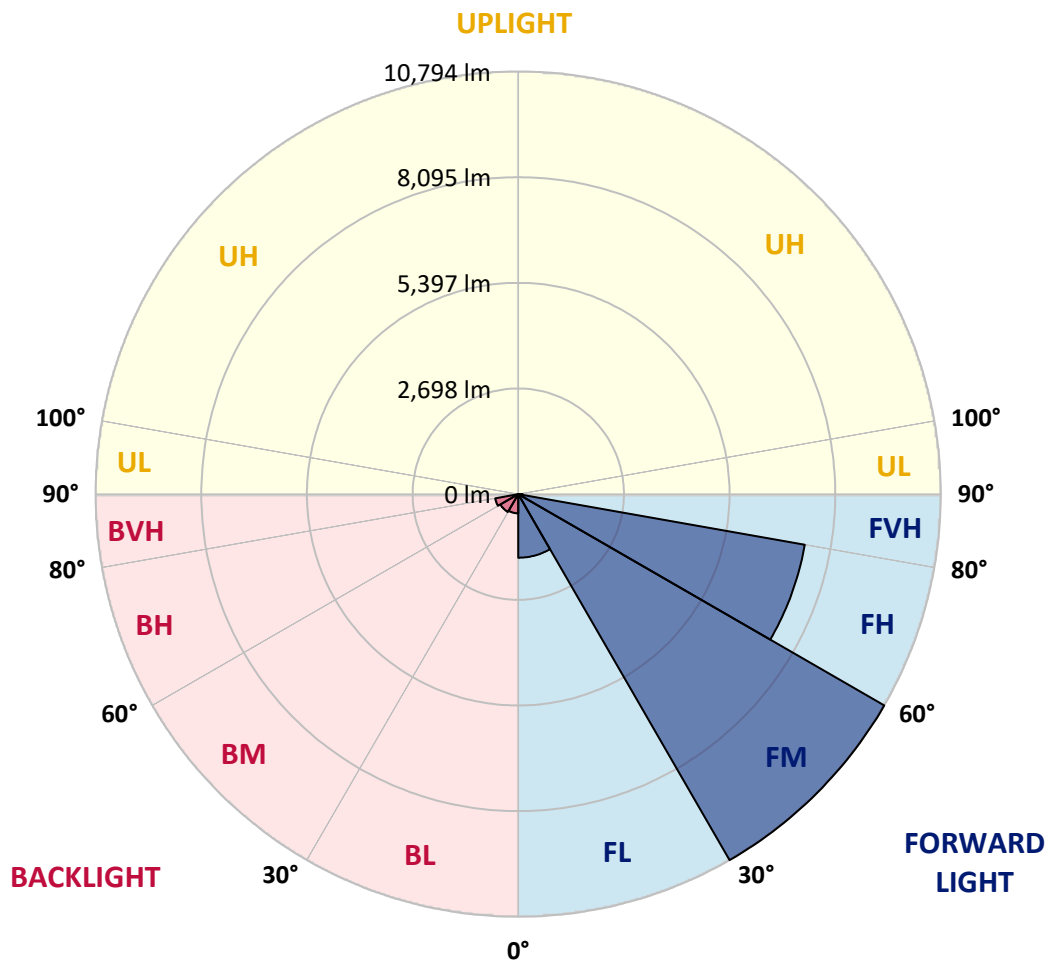
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 CATALOG NUMBER: IFLD-L-SA8B-722-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1624.2	7.5			
FM (30°-60°)	10793.9	50.0			
FH (60°-80°)	7431.7	34.4			G3/7500
FVH (80°-90°)	117.9	0.5			G2/225
BL (0°-30°)	490.2	2.3	B1/500		
BM (30°-60°)	526.9	2.4	B1/1000		
BH (60°-80°)	597.6	2.8	B2/1000		G2/1000
BVH (80°-90°)	6.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short





REPORT NUMBER: P481541

CATALOG NUMBER: IFLD-L-SA8B-722-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2685.9	2685.9	2685.9	2685.9	2685.9	2685.9	2685.9	2685.9	2685.9	2685.9	2685.9
2.5°	3042.0	3038.7	3025.4	3002.1	2972.1	2962.1	2918.9	2859.0	2825.7	2789.1	2772.4
5°	3251.7	3235.1	3275.0	3258.4	3265.0	3185.1	3131.9	3088.6	2962.1	2912.2	2832.3
7.5°	3298.3	3314.9	3311.6	3338.2	3364.9	3394.8	3358.2	3295.0	3168.5	3095.3	3008.7
10°	3298.3	3291.6	3318.3	3354.9	3431.4	3498.0	3597.8	3514.6	3418.1	3331.6	3175.2
12.5°	3238.4	3228.4	3255.0	3331.6	3468.0	3604.5	3714.3	3794.2	3657.8	3587.9	3384.8
15°	3055.3	3045.4	3155.2	3291.6	3471.4	3694.4	3924.0	4053.8	3960.6	3850.8	3624.5
17.5°	2829.0	2842.3	2958.8	3185.1	3471.4	3737.6	4030.5	4313.4	4300.1	4160.3	3924.0
20°	2752.5	2762.5	2878.9	3042.0	3368.2	3767.6	4196.9	4596.3	4676.2	4509.8	4200.3
22.5°	2898.9	2888.9	2898.9	2998.8	3298.3	3741.0	4306.8	4919.2	5062.3	4932.5	4563.0
25°	3398.1	3391.5	3308.3	3155.2	3258.4	3681.1	4363.3	5132.2	5461.7	5341.9	4855.9
27.5°	4130.4	4103.7	3973.9	3654.4	3444.7	3717.7	4456.5	5338.5	5811.1	5674.7	5118.9
30°	4915.8	4852.6	4682.9	4283.5	3927.3	3854.1	4509.8	5491.6	6200.5	6027.5	5348.5
32.5°	5458.3	5541.5	5488.3	5082.2	4536.4	4170.3	4596.3	5684.7	6560.0	6446.8	5741.2
35°	6297.1	6393.6	6170.6	5811.1	5262.0	4672.9	4779.4	5841.1	7112.5	6922.8	6107.3
37.5°	7355.4	7428.7	7268.9	6586.6	6007.5	5291.9	5155.5	6167.3	7588.4	7498.6	6576.6
40°	7888.0	8240.8	8014.4	7398.7	6776.3	6157.3	5777.9	6550.0	8417.2	8343.9	7225.6
42.5°	8623.5	8799.9	8683.4	8227.4	7578.4	7082.5	6546.7	7295.5	9422.3	9422.3	8104.3
45°	9402.3	9409.0	9402.3	9029.6	8453.8	8197.5	7585.1	8230.8	10504.0	10623.8	9156.0
47.5°	10041.3	10241.0	10224.4	10001.4	9555.4	9458.9	8623.5	9295.8	11861.9	12071.6	10181.1
50°	10370.8	10593.8	10660.4	10776.9	10756.9	10959.9	9758.4	10530.6	13033.4	13549.3	11499.1
52.5°	10281.0	10297.6	10707.0	11166.3	11898.5	12467.6	11126.4	11931.8	14404.7	14913.9	12517.6
55°	9545.4	9482.2	10324.2	10850.1	12364.5	13389.6	13020.1	13679.1	15473.1	16248.5	13569.3
57.5°	7931.2	7947.9	8726.7	9795.1	12018.3	13755.7	15043.7	15962.3	16970.8	17752.9	15047.0
60°	5475.0	5455.0	6327.0	7561.8	9984.8	13073.4	16208.6	18921.1	18974.4	20082.7	17699.7
62.5°	3078.6	3085.3	3747.6	4802.7	6986.0	10683.7	16152.0	22063.0	21836.7	22808.5	20715.1
65°	1744.0	1787.3	2243.2	2845.7	4183.6	7172.4	13892.1	23314.4	24043.3	24908.7	22545.6
66°	1474.4	1504.4	1893.8	2349.7	3338.2	5817.8	12504.3	23071.5	24735.6	25394.6	22509.0
67.5°	1141.6	1181.5	1507.7	1863.8	2449.6	4027.2	10064.6	21863.3	24862.1	25248.1	21873.3
70°	782.1	808.8	1058.4	1414.5	1674.1	2060.2	6017.5	18075.8	22558.9	22885.1	19011.0
72.5°	549.2	562.5	742.2	1071.7	1288.0	1178.2	2985.4	12860.4	17263.7	17899.4	14787.4
75°	396.1	409.4	509.2	768.8	1005.1	772.2	1367.9	8214.1	10587.2	11086.4	8906.4
77.5°	286.2	302.9	346.1	495.9	728.9	542.5	672.3	4290.1	4992.4	4905.8	3830.8
80°	173.1	189.7	256.3	319.5	532.5	382.7	369.4	1790.6	1770.6	1680.8	1204.8
82.5°	79.9	93.2	136.5	216.3	372.8	266.3	176.4	639.0	559.1	512.6	339.5
85°	23.3	30.0	79.9	163.1	189.7	129.8	106.5	219.7	229.6	196.4	113.2
87.5°	0.0	3.3	36.6	39.9	56.6	43.3	39.9	56.6	106.5	86.5	36.6
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°	2685.9	2685.9	2685.9	2685.9	2685.9	2685.9	2685.9	2685.9	2685.9	2685.9	2685.9
2.5°	2712.5	2689.2	2632.7	2546.1	2469.6	2429.6	2373.0	2323.1	2296.5	2293.2	2289.8
5°	2779.1	2715.9	2579.4	2423.0	2306.5	2180.0	2093.5	2030.2	1970.3	1913.7	1947.0
7.5°	2869.0	2769.1	2546.1	2343.1	2090.1	1927.1	1774.0	1684.1	1630.8	1580.9	1574.3
10°	3008.7	2882.3	2522.8	2156.7	1867.2	1627.5	1471.1	1341.3	1268.1	1181.5	1214.8
12.5°	3198.5	2972.1	2436.3	1987.0	1614.2	1361.3	1138.3	928.6	812.1	722.2	725.6
15°	3388.2	3091.9	2356.4	1780.6	1384.6	1051.7	725.6	582.4	549.2	529.2	535.8
17.5°	3574.5	3188.5	2233.3	1570.9	1121.6	669.0	529.2	499.2	482.6	462.6	462.6
20°	3800.9	3251.7	2080.2	1377.9	772.2	495.9	452.6	432.7	406.0	379.4	382.7
22.5°	4020.5	3305.0	1903.8	1131.6	519.2	429.3	379.4	352.8	329.5	302.9	302.9
25°	4240.2	3321.6	1674.1	812.1	419.4	342.8	296.2	259.6	236.3	213.0	216.3
27.5°	4390.0	3218.4	1457.8	519.2	336.2	259.6	206.4	176.4	156.4	133.1	133.1
30°	4476.5	3028.7	1224.8	366.1	252.9	176.4	123.1	93.2	73.2	56.6	53.3
32.5°	4563.0	2875.6	961.9	279.6	166.4	93.2	46.6	16.6	0.0	0.0	0.0
35°	4736.1	2702.5	645.7	156.4	56.6	3.3	0.0	0.0	0.0	0.0	0.0
37.5°	4845.9	2462.9	296.2	23.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	5122.2	2343.1	73.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	5571.5	2259.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	6064.1	2226.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	6719.7	2316.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	7412.0	2559.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	8170.9	2789.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	8833.2	3065.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	10051.3	3717.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	12238.0	4999.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	14700.9	5950.9	36.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	15602.9	5927.6	63.2	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	15443.1	5601.5	63.2	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	14614.4	4975.7	56.6	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	12550.9	4110.4	56.6	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	9568.7	3201.8	53.3	13.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0
75°	5774.5	1704.1	43.3	16.6	6.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	2299.8	599.1	33.3	13.3	6.7	0.0	0.0	0.0	0.0	0.0	0.0
80°	622.4	179.7	20.0	13.3	10.0	3.3	0.0	0.0	0.0	0.0	0.0
82.5°	163.1	66.6	16.6	13.3	6.7	3.3	0.0	0.0	0.0	0.0	0.0
85°	63.2	26.6	13.3	10.0	10.0	6.7	3.3	0.0	0.0	0.0	0.0
87.5°	20.0	10.0	10.0	6.7	6.7	3.3	3.3	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)