

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: P481931

Luminaire Tested: **IFLD-L-SA8B-722-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481931
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-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (128) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

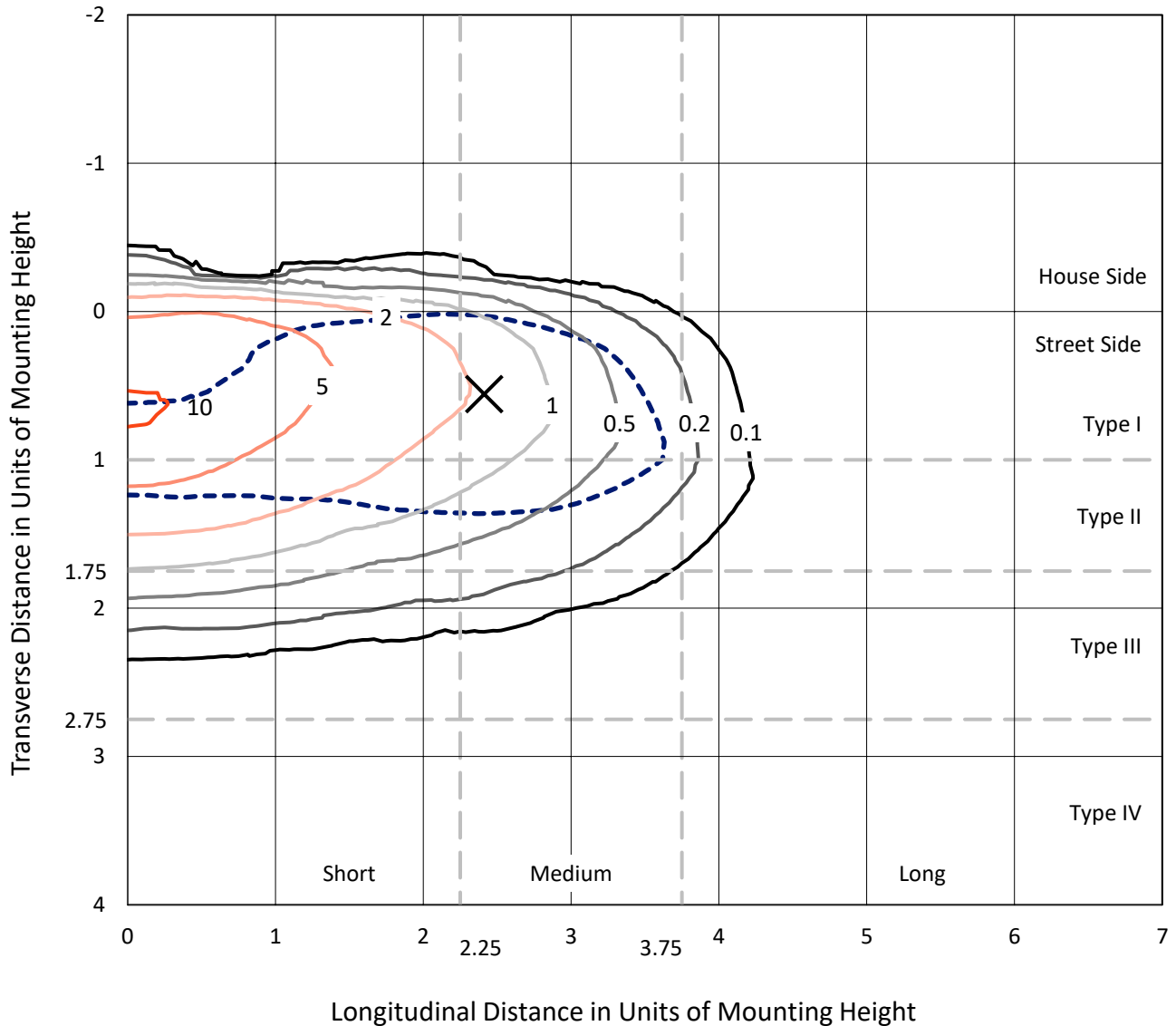
Lumens per Lamp: N/A
Luminaire Lumens: 23569.4 lumens
Efficiency: N/A
Efficacy: 73.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

Input Watts (W): 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

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Iso-Footcandle Lines of Horizontal Illumination

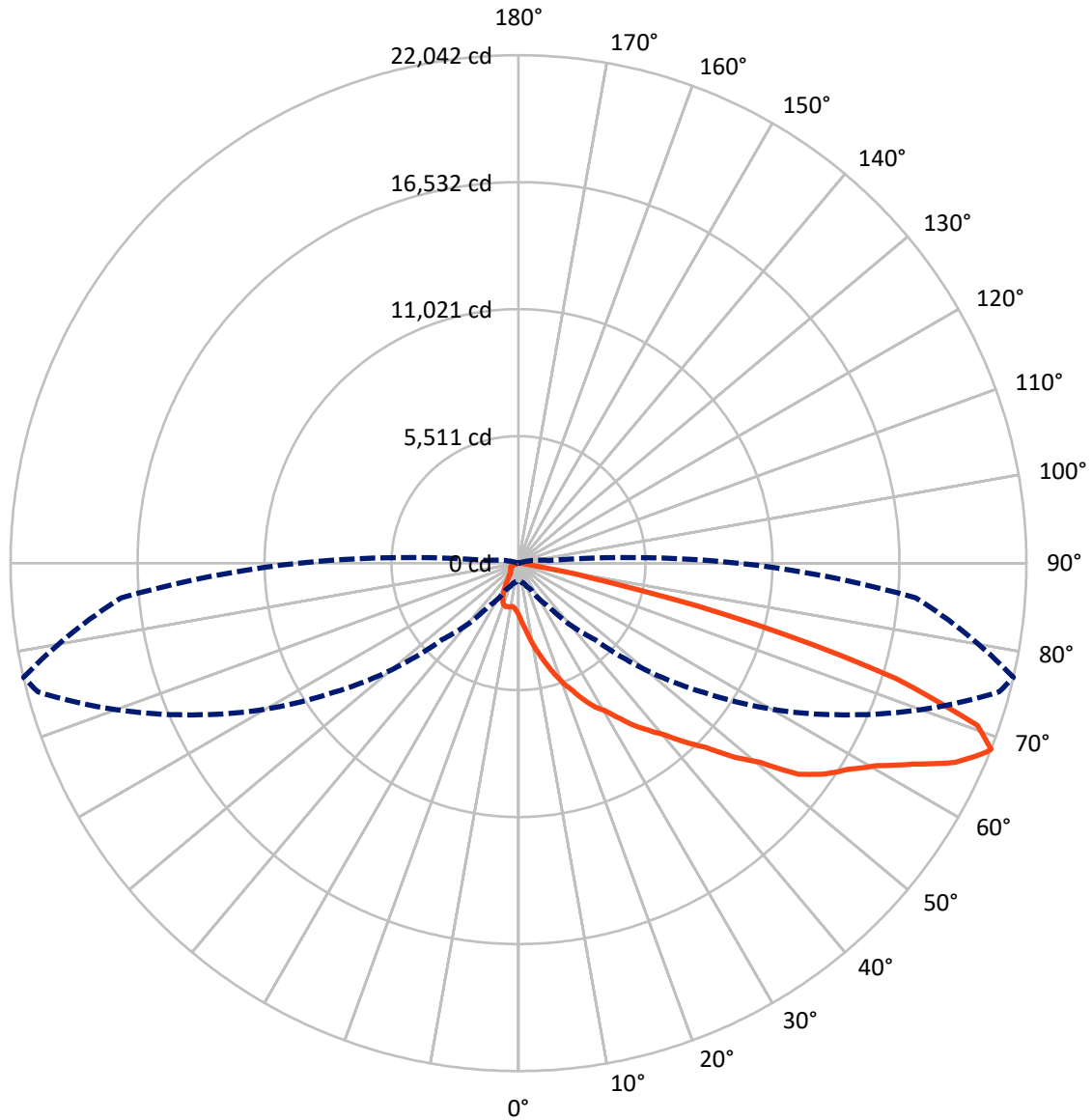
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 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	1068.8	0.0	1068.8
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	22500.6	0.0	22500.6
	% Fixture	95.5	0.0	95.5
Total	Lumens	23569.4	0.0	23569.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.7	1.1
10°-20°	972.4	4.1
20°-30°	1884.5	8.0
30°-40°	3285.3	13.9
40°-50°	4811.7	20.4
50°-60°	5653.0	24.0
60°-70°	4773.4	20.3
70°-80°	1850.3	7.9
80°-90°	75.2	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°	23569.4	100.0
0°-180°	23569.4	100.0

Coefficient of Utilization



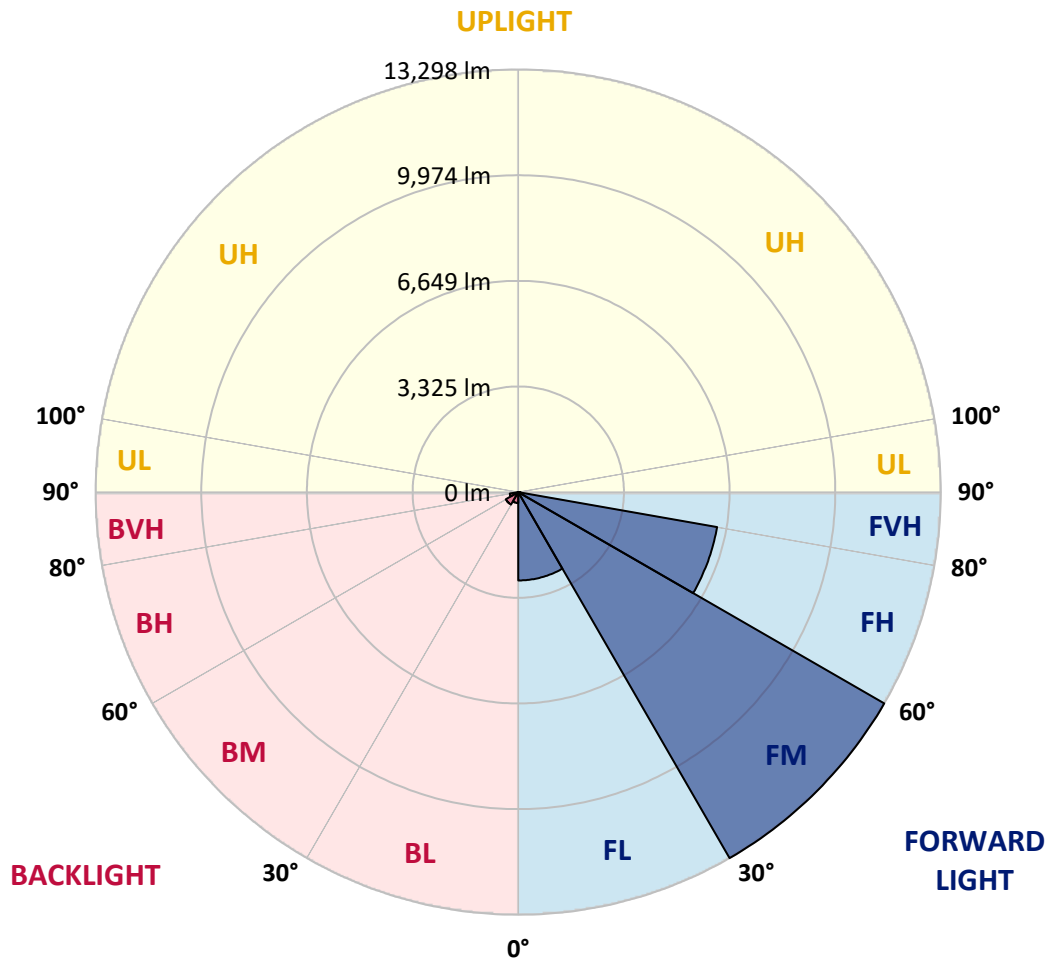
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2779.0	11.8			
FM (30°-60°)	13298.3	56.4			
FH (60°-80°)	6353.8	27.0			G3/7500
FVH (80°-90°)	69.4	0.3			G1/100
BL (0°-30°)	341.5	1.4	B1/500		
BM (30°-60°)	451.6	1.9	B1/1000		
BH (60°-80°)	269.9	1.1	B1/500		G1/500
BVH (80°-90°)	5.8	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°	2256.8	2256.8	2256.8	2256.8	2256.8	2256.8	2256.8	2256.8	2256.8	2256.8	2256.8
2.5°	3429.1	3364.1	3295.9	3276.4	3149.8	3006.9	2873.8	2743.9	2526.3	2529.6	2380.2
5°	4419.5	4338.3	4283.1	4270.1	4072.0	3825.2	3623.9	3256.9	2896.5	2815.3	2542.6
7.5°	5234.5	5208.5	5127.3	5059.2	4913.0	4611.0	4374.0	3847.9	3299.2	3208.2	2740.6
10°	5728.1	5767.0	5802.8	5715.1	5601.4	5383.9	5059.2	4490.9	3757.0	3643.4	2997.2
12.5°	6254.1	6189.2	6211.9	6283.3	6134.0	6085.3	5682.6	5153.3	4292.8	4075.2	3321.9
15°	6390.5	6416.5	6471.7	6679.5	6780.2	6640.5	6293.1	5689.1	4848.1	4546.1	3623.9
17.5°	6481.4	6468.4	6536.6	6848.4	7001.0	7134.1	6916.6	6286.6	5331.9	5062.4	4000.6
20°	6595.1	6523.6	6673.0	6871.1	7225.0	7504.3	7494.6	6887.3	5838.5	5552.7	4374.0
22.5°	7017.2	6962.0	7082.2	7101.6	7348.4	7738.1	7832.3	7377.7	6358.0	6007.3	4776.6
25°	7796.5	7897.2	7754.3	7630.9	7705.6	7962.2	8030.3	7812.8	6880.8	6559.4	5179.3
27.5°	8936.3	8923.3	8640.8	8481.7	8303.1	8270.6	8319.3	8218.7	7293.2	7062.7	5510.5
30°	10160.5	10053.4	9793.6	9410.4	9017.5	8774.0	8705.8	8601.9	7777.1	7442.6	5838.5
32.5°	11134.7	11193.1	10904.1	10404.1	9751.4	9423.4	9095.4	8981.8	8309.6	8014.1	6215.2
35°	12030.9	11953.0	11722.4	11300.3	10715.8	10186.5	9673.4	9429.9	8949.3	8657.1	6630.8
37.5°	12693.3	12790.8	12352.4	11949.7	11368.5	10930.1	10426.8	9894.2	9608.5	9218.8	7137.4
40°	13320.0	13167.4	12871.9	12501.8	11962.7	11628.3	11297.0	10465.8	10309.9	9806.6	7708.9
42.5°	13209.6	13219.4	13057.0	12758.3	12368.6	12177.0	12063.4	11160.7	10946.3	10624.9	8267.4
45°	12758.3	12797.2	12852.4	12706.3	12738.8	12547.2	12852.4	11959.5	11748.4	11407.4	8910.3
47.5°	12261.5	12326.4	12313.4	12579.7	12881.7	12946.6	13709.7	12846.0	12755.0	12566.7	9800.1
50°	11436.7	11462.6	11712.7	12196.5	12608.9	13287.6	14352.7	13813.6	13953.3	13583.1	10858.7
52.5°	10027.4	10121.5	10764.5	11456.1	12287.4	13459.7	14787.8	15252.1	15606.1	15226.2	11875.0
55°	8244.7	8374.5	9007.8	10303.4	11521.1	13199.9	15183.9	16012.0	16729.6	16154.9	12492.0
57.5°	6634.0	6647.0	7215.3	8553.1	10433.3	12690.1	15385.3	16382.2	17346.6	16885.5	13245.4
60°	5055.9	5003.9	5513.8	6673.0	8601.9	11436.7	14882.0	16570.5	18116.2	17849.9	14151.3
62.5°	3253.7	3172.5	3727.8	4857.8	6718.5	9348.7	13875.3	16573.7	19317.6	19217.0	15667.8
65°	1610.6	1555.4	2032.8	2977.7	4650.0	7150.4	12440.1	16512.1	20785.4	20850.3	17145.3
67.5°	850.8	870.3	1022.9	1510.0	2682.2	5052.7	10277.4	15787.9	21535.5	21899.2	17502.5
68°	782.6	789.1	909.2	1256.7	2328.2	4685.7	9764.4	15576.9	21593.9	22042.0	17304.4
70°	636.5	646.2	688.4	789.1	1259.9	3049.1	7533.5	13784.4	20713.9	21123.1	15664.5
72.5°	506.6	535.8	561.8	604.0	740.4	1600.9	4685.7	10741.8	17112.8	17158.2	12193.3
75°	386.4	409.1	461.1	496.8	578.0	880.0	2230.8	6549.6	11228.8	10676.8	7182.8
77.5°	298.7	318.2	341.0	389.7	483.8	594.2	681.9	2779.6	4770.1	3925.9	2029.5
80°	178.6	191.6	266.3	305.2	422.1	402.7	269.5	772.8	967.7	763.1	370.2
82.5°	103.9	113.7	152.6	233.8	295.5	217.6	159.1	240.3	237.0	207.8	123.4
85°	3.2	6.5	84.4	139.6	103.9	58.4	97.4	100.7	84.4	77.9	55.2
87.5°	0.0	3.2	22.7	19.5	22.7	13.0	19.5	26.0	32.5	29.2	22.7
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°	2256.8	2256.8	2256.8	2256.8	2256.8	2256.8	2256.8	2256.8	2256.8	2256.8	2256.8
2.5°	2279.5	2208.1	2049.0	1928.8	1799.0	1721.0	1643.1	1594.4	1568.4	1552.2	1565.2
5°	2338.0	2188.6	1932.1	1704.8	1555.4	1454.7	1354.1	1302.1	1253.4	1227.4	1243.7
7.5°	2467.9	2243.8	1818.4	1571.6	1396.3	1240.4	1113.8	1013.1	954.7	902.7	912.5
10°	2627.0	2276.3	1821.7	1493.7	1240.4	993.6	815.0	688.4	617.0	571.5	568.3
12.5°	2789.4	2402.9	1834.7	1415.8	1048.8	746.9	535.8	441.6	399.4	376.7	376.7
15°	3036.1	2516.6	1802.2	1272.9	795.6	487.1	366.9	334.5	318.2	298.7	302.0
17.5°	3250.5	2698.4	1786.0	1058.6	545.5	350.7	305.2	269.5	253.3	233.8	233.8
20°	3539.5	2812.1	1698.3	818.3	376.7	292.2	246.8	214.3	188.3	172.1	175.3
22.5°	3802.5	2899.8	1542.4	558.5	289.0	230.6	181.8	149.4	126.6	107.2	110.4
25°	4088.2	2987.4	1315.1	344.2	204.6	142.9	97.4	71.4	48.7	35.7	35.7
27.5°	4292.8	3013.4	1019.6	204.6	123.4	64.9	22.7	3.2	0.0	0.0	0.0
30°	4500.6	3023.2	704.6	110.4	48.7	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	4737.7	3019.9	441.6	58.4	3.2	0.0	0.0	0.0	0.0	0.0	0.0
35°	4919.5	2964.7	211.1	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	5195.5	2883.5	64.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	5510.5	2737.4	13.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	5793.0	2588.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	6114.5	2402.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	6679.5	2325.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	7416.6	2263.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	7871.2	2081.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	8108.3	1893.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	8459.0	1802.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	8978.5	1808.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	9790.3	1899.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	10238.4	1808.7	13.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	9858.5	1448.3	61.7	16.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0
68°	9530.6	1331.4	61.7	16.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0
70°	7877.7	867.0	58.4	16.2	6.5	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	5737.8	480.6	48.7	13.0	6.5	0.0	0.0	0.0	0.0	0.0	0.0
75°	3338.1	240.3	35.7	13.0	6.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	870.3	120.1	29.2	16.2	9.7	3.2	0.0	0.0	0.0	0.0	0.0
80°	172.1	77.9	26.0	19.5	13.0	6.5	0.0	0.0	0.0	0.0	0.0
82.5°	81.2	55.2	26.0	19.5	16.2	9.7	3.2	0.0	0.0	0.0	0.0
85°	42.2	26.0	26.0	19.5	19.5	13.0	6.5	0.0	0.0	0.0	0.0
87.5°	19.5	9.7	9.7	9.7	9.7	6.5	3.2	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)