

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: McGRAW-EDISON

Report Number: P950202

Luminaire Tested: **GALN-SB4D-722-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950202
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4D-722-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28049 lumens
Efficiency: N/A
Efficacy: 95.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

Input Watts (W): 293.6
Input Voltage (V): NR
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



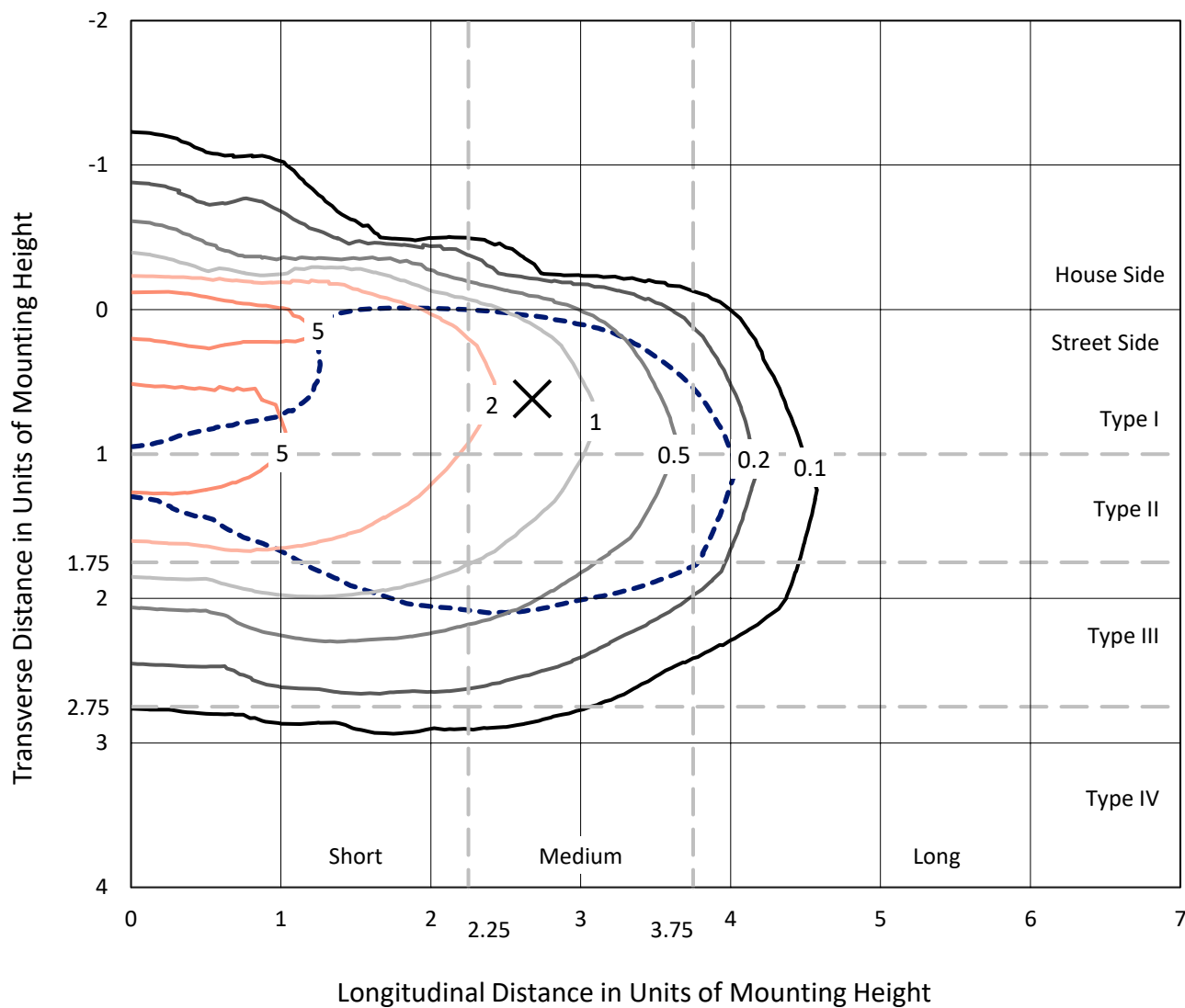
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

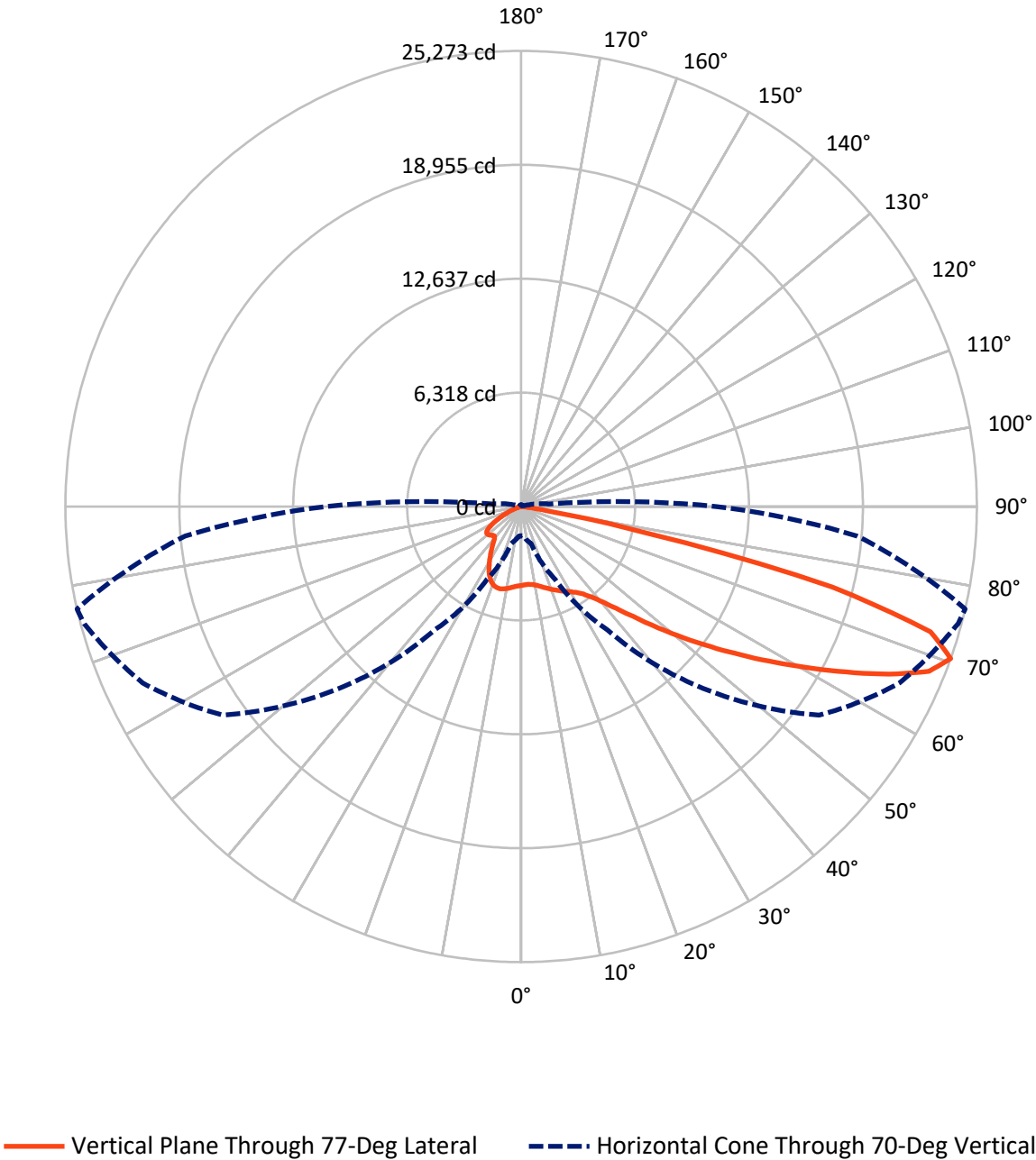
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2956.8	0.0	2956.8
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	25092.2	0.0	25092.2
	% Fixture	89.5	0.0	89.5
Total	Lumens	28049.0	0.0	28049.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	377.1	1.3
10°-20°	895.1	3.2
20°-30°	1384.5	4.9
30°-40°	2512.2	9.0
40°-50°	4742.2	16.9
50°-60°	6852.0	24.4
60°-70°	7293.8	26.0
70°-80°	3865.2	13.8
80°-90°	126.9	0.5
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°	28049.0	100.0
0°-180°	28049.0	100.0

Coefficient of Utilization



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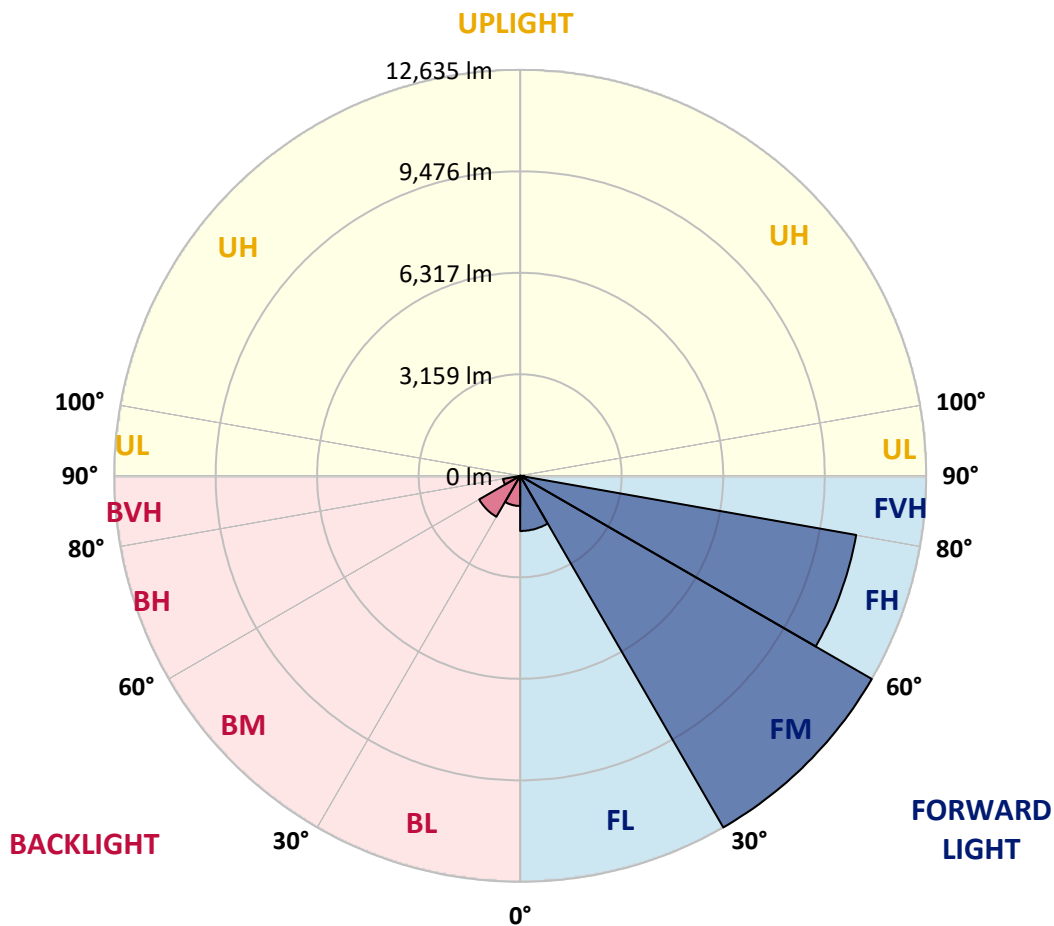
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1717.3	6.1			
FM	(30°-60°)	12634.5	45.0			
FH	(60°-80°)	10616.9	37.9			G4/12000
FVH	(80°-90°)	123.5	0.4			G2/225
BL	(0°-30°)	939.4	3.3	B2/1000		
BM	(30°-60°)	1471.9	5.2	B2/2500		
BH	(60°-80°)	542.1	1.9	B2/1000		G2/1000
BVH	(80°-90°)	3.4	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-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	4375.1	4375.1	4375.1	4375.1	4375.1	4375.1	4375.1	4375.1	4375.1	4375.1	4375.1
2.5°	4107.7	4144.9	4139.6	4164.4	4173.2	4208.6	4244.1	4291.9	4345.0	4343.3	4378.7
5°	3875.6	3912.8	3921.7	3955.3	3997.8	4052.8	4125.4	4221.0	4320.2	4336.2	4407.0
7.5°	3601.1	3640.0	3663.1	3730.4	3808.3	3921.7	4040.4	4180.3	4345.0	4368.1	4504.4
10°	3326.5	3361.9	3392.1	3487.7	3611.7	3780.0	3973.0	4175.0	4396.4	4430.0	4623.1
12.5°	3156.5	3190.1	3223.8	3307.0	3461.1	3666.6	3928.8	4199.8	4481.4	4529.2	4784.3
15°	3096.3	3126.4	3152.9	3227.3	3370.8	3604.6	3919.9	4251.1	4589.5	4653.2	4979.2
17.5°	3105.1	3121.0	3138.8	3195.4	3335.4	3576.3	3935.9	4339.7	4717.0	4773.7	5174.0
20°	3156.5	3165.3	3167.1	3206.1	3330.1	3572.7	3967.7	4424.7	4837.4	4913.6	5367.1
22.5°	3222.0	3225.6	3222.0	3248.6	3363.7	3599.3	4010.2	4527.5	4972.1	5042.9	5561.9
25°	3528.5	3461.1	3376.1	3324.8	3420.4	3650.7	4074.0	4665.6	5119.1	5188.2	5751.4
27.5°	4479.6	4286.6	3981.9	3640.0	3537.3	3725.1	4162.6	4805.6	5267.9	5329.9	5955.1
30°	6024.2	5770.9	5253.7	4483.2	3912.8	3880.9	4277.7	4945.5	5425.5	5492.8	6173.0
32.5°	7572.4	7510.4	6913.4	5847.1	4757.7	4228.1	4469.0	5135.0	5634.5	5687.7	6467.1
35°	9138.2	9012.4	8523.5	7469.6	6059.7	4934.9	4787.9	5383.0	5909.1	5969.3	6895.7
37.5°	10337.4	10261.2	9958.3	9090.4	7604.2	6026.0	5333.4	5767.4	6307.6	6374.9	7444.8
40°	11396.6	11361.2	11258.5	10686.3	9331.3	7453.7	6181.9	6362.5	6860.3	6940.0	8117.9
42.5°	12229.1	12312.4	12370.8	12211.4	11111.4	9083.3	7322.6	7198.6	7630.8	7712.3	8975.2
45°	13081.1	13109.5	13345.1	13575.3	12879.2	10787.3	8608.6	8178.1	8589.1	8690.1	10002.6
47.5°	13628.5	13741.8	14156.3	14561.9	14365.3	12477.1	9990.2	9334.8	9699.7	9889.2	11153.9
50°	13669.2	13883.5	14453.9	15160.6	15447.6	14085.5	11492.3	10652.7	11040.6	11249.6	12383.2
52.5°	12990.8	13323.8	14207.7	15242.1	16032.1	15447.6	13045.7	11970.5	12468.3	12741.0	13658.6
55°	9960.1	10395.8	13281.3	14799.3	16055.2	16480.3	14558.4	13343.3	14058.9	14367.1	15036.7
57.5°	8677.7	8897.3	10441.9	14030.6	15628.3	16896.5	15925.9	14650.5	15789.5	16172.1	16338.6
60°	7219.9	7508.6	8757.4	12772.9	15049.1	16937.3	17133.9	16336.8	17665.3	18095.7	17532.4
62.5°	4906.5	5220.1	6461.7	10611.9	14257.3	16917.8	18124.1	18072.7	19750.1	20212.4	18543.9
65°	3039.6	3236.2	4054.5	8665.3	13150.2	16939.0	19160.3	20180.5	21950.1	22419.5	19326.8
67.5°	2401.9	2492.2	2919.1	6653.0	11242.5	16460.8	20194.7	22162.6	24020.7	24392.7	19565.9
70°	1613.7	1668.6	2123.8	4460.2	8364.1	14253.7	20175.2	23158.1	25087.1	25273.1	18694.4
72.5°	850.2	892.7	1241.7	2065.3	5051.8	10131.9	17006.4	21967.8	24026.1	23746.2	15979.0
75°	425.1	496.0	836.1	1048.6	2157.5	5650.5	10560.6	17319.9	18910.5	17826.5	10252.3
77.5°	322.4	389.7	690.8	690.8	751.0	1902.4	4472.6	9446.4	8713.1	7255.3	3009.5
80°	205.5	265.7	604.0	522.5	313.5	483.6	1165.5	2646.3	1851.0	1408.2	547.3
82.5°	120.4	173.6	503.1	345.4	175.4	178.9	329.5	563.3	480.0	373.7	168.3
85°	47.8	113.4	345.4	136.4	69.1	44.3	99.2	120.4	99.2	74.4	42.5
87.5°	0.0	26.6	60.2	0.0	5.3	3.5	7.1	8.9	8.9	7.1	14.2
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°	4375.1	4375.1	4375.1	4375.1	4375.1	4375.1	4375.1	4375.1	4375.1	4375.1	4375.1
2.5°	4394.6	4398.2	4408.8	4410.6	4385.8	4353.9	4341.5	4336.2	4314.9	4313.1	4316.7
5°	4447.8	4463.7	4447.8	4401.7	4291.9	4137.8	4020.9	3925.2	3838.4	3811.9	3795.9
7.5°	4554.0	4570.0	4522.2	4341.5	4065.2	3758.7	3482.4	3287.6	3112.2	3046.7	3020.1
10°	4706.4	4727.6	4577.1	4212.2	3723.3	3230.9	2763.2	2433.8	2176.9	2072.4	2028.2
12.5°	4897.7	4906.5	4607.2	4015.6	3278.7	2575.5	1913.0	1560.5	1332.0	1247.0	1220.4
15°	5108.5	5096.1	4610.7	3748.1	2672.9	1820.9	1248.8	1025.6	933.5	905.1	905.1
17.5°	5329.9	5278.5	4539.9	3361.9	2008.7	1245.2	926.4	873.3	857.3	850.2	848.5
20°	5547.7	5432.6	4410.6	2857.1	1441.8	929.9	841.4	825.4	816.6	813.0	809.5
22.5°	5746.1	5549.5	4189.1	2270.8	1046.8	821.9	795.3	781.1	765.2	758.1	756.3
25°	5939.2	5616.8	3877.4	1723.5	837.8	768.7	747.5	720.9	699.7	690.8	687.3
27.5°	6127.0	5659.3	3487.7	1275.3	747.5	719.2	680.2	643.0	627.0	623.5	620.0
30°	6327.1	5673.5	3044.9	951.2	692.6	657.2	600.5	558.0	549.1	550.9	550.9
32.5°	6571.6	5694.8	2598.5	779.4	646.5	582.8	515.5	471.2	464.1	471.2	469.4
35°	6863.8	5737.3	2168.1	717.4	605.8	506.6	434.0	396.8	389.7	395.0	393.2
37.5°	7260.6	5806.4	1766.0	705.0	572.1	442.8	364.9	334.8	334.8	336.5	334.8
40°	7788.5	5990.6	1406.4	696.1	554.4	395.0	308.2	295.8	301.1	304.7	304.7
42.5°	8431.4	6382.0	1163.8	685.5	534.9	373.7	279.9	274.6	283.4	287.0	287.0
45°	9152.4	6878.0	1078.7	667.8	517.2	387.9	267.5	260.4	271.0	272.8	274.6
47.5°	9898.1	7363.3	1068.1	648.3	499.5	409.2	263.9	248.0	260.4	262.2	263.9
50°	10652.7	7680.4	1078.7	618.2	471.2	409.2	265.7	235.6	246.2	251.5	253.3
52.5°	11412.6	7825.7	1071.6	552.6	421.6	384.4	265.7	225.0	235.6	239.1	239.1
55°	12149.4	7797.3	963.6	455.2	357.8	340.1	258.6	216.1	223.2	225.0	225.0
57.5°	12732.2	7402.3	763.4	354.3	290.5	283.4	235.6	205.5	210.8	209.0	209.0
60°	13036.8	6534.4	545.6	272.8	228.5	223.2	207.2	191.3	194.8	186.0	184.2
62.5°	13040.4	5386.6	364.9	216.1	182.4	177.1	177.1	171.8	168.3	150.6	145.2
65°	12762.3	4113.0	242.7	171.8	147.0	138.2	148.8	147.0	134.6	109.8	106.3
67.5°	12131.7	2695.9	184.2	134.6	113.4	108.0	118.7	124.0	115.1	92.1	90.3
70°	10835.1	1569.4	152.3	104.5	85.0	79.7	95.7	106.3	95.7	74.4	70.9
72.5°	9000.0	846.7	124.0	77.9	58.5	53.1	76.2	86.8	76.2	54.9	53.1
75°	5840.0	453.5	95.7	51.4	30.1	33.7	56.7	63.8	53.1	35.4	31.9
77.5°	1960.8	200.2	60.2	24.8	14.2	14.2	33.7	39.0	24.8	12.4	10.6
80°	437.5	83.3	24.8	10.6	5.3	5.3	7.1	7.1	3.5	0.0	0.0
82.5°	143.5	33.7	10.6	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	54.9	12.4	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	21.3	1.8	0.0	0.0	0.0	0.0	0.0	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)