

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: P953417

Luminaire Tested: **GALN-SB7A-722-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953417
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7A-722-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20300 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

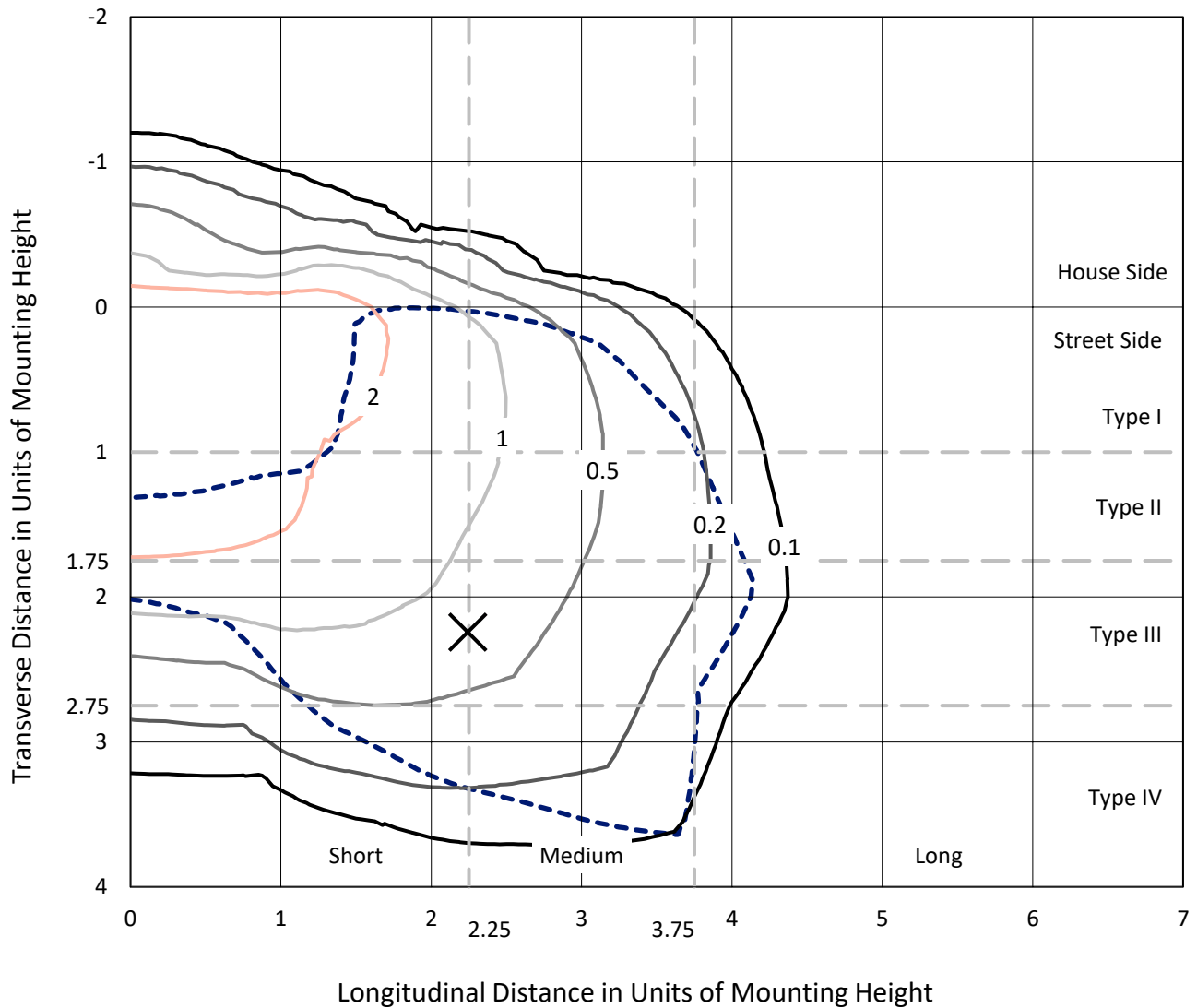
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

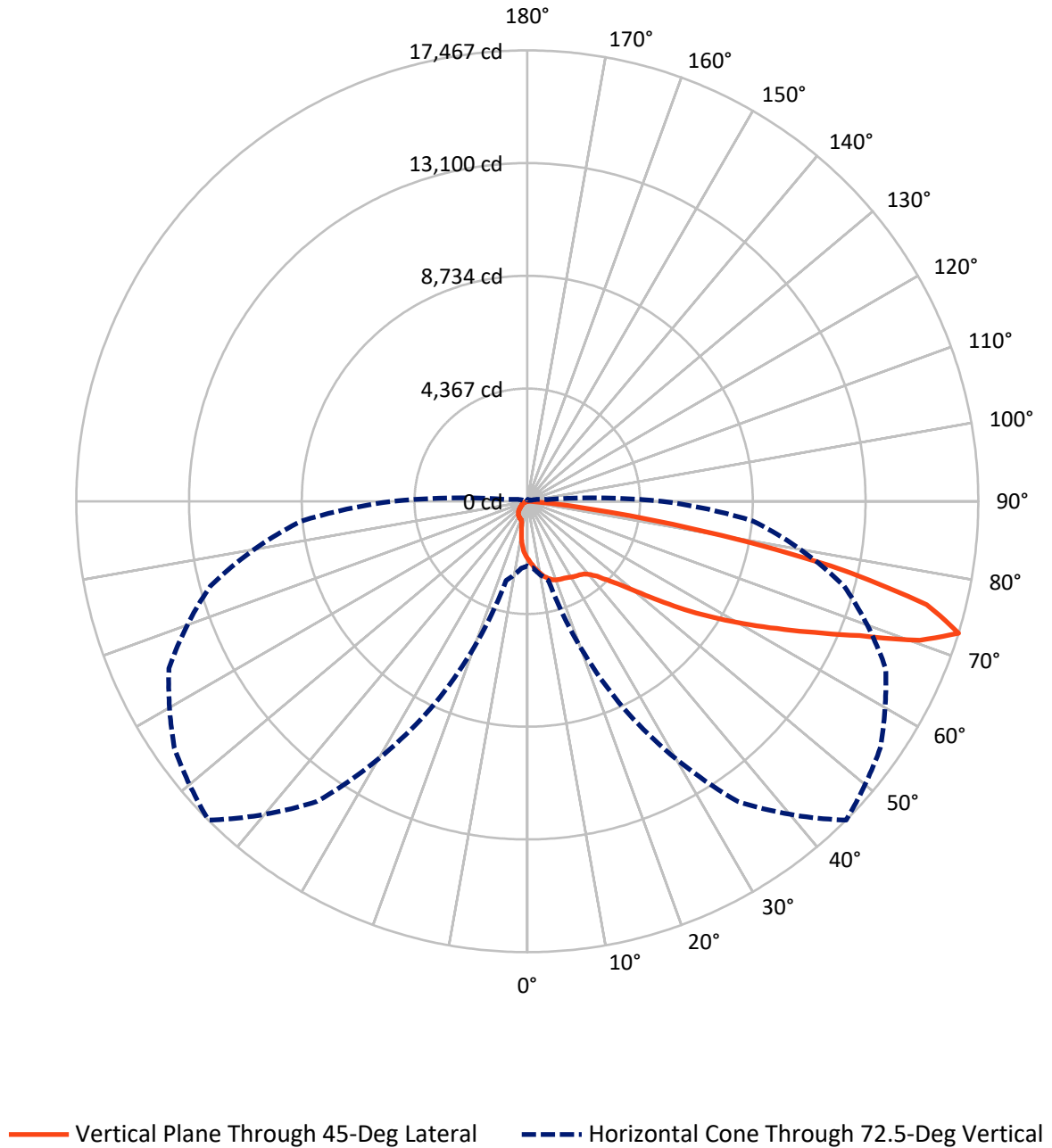
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2133.0	0.0	2133.0
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	18167.0	0.0	18167.0
	% Fixture	89.5	0.0	89.5
Total	Lumens	20300.0	0.0	20300.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.5	1.0
10°-20°	612.4	3.0
20°-30°	1005.6	5.0
30°-40°	1426.2	7.0
40°-50°	2357.4	11.6
50°-60°	4234.8	20.9
60°-70°	5880.3	29.0
70°-80°	4265.4	21.0
80°-90°	308.4	1.5
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°	20300.0	100.0
0°-180°	20300.0	100.0

Coefficient of Utilization



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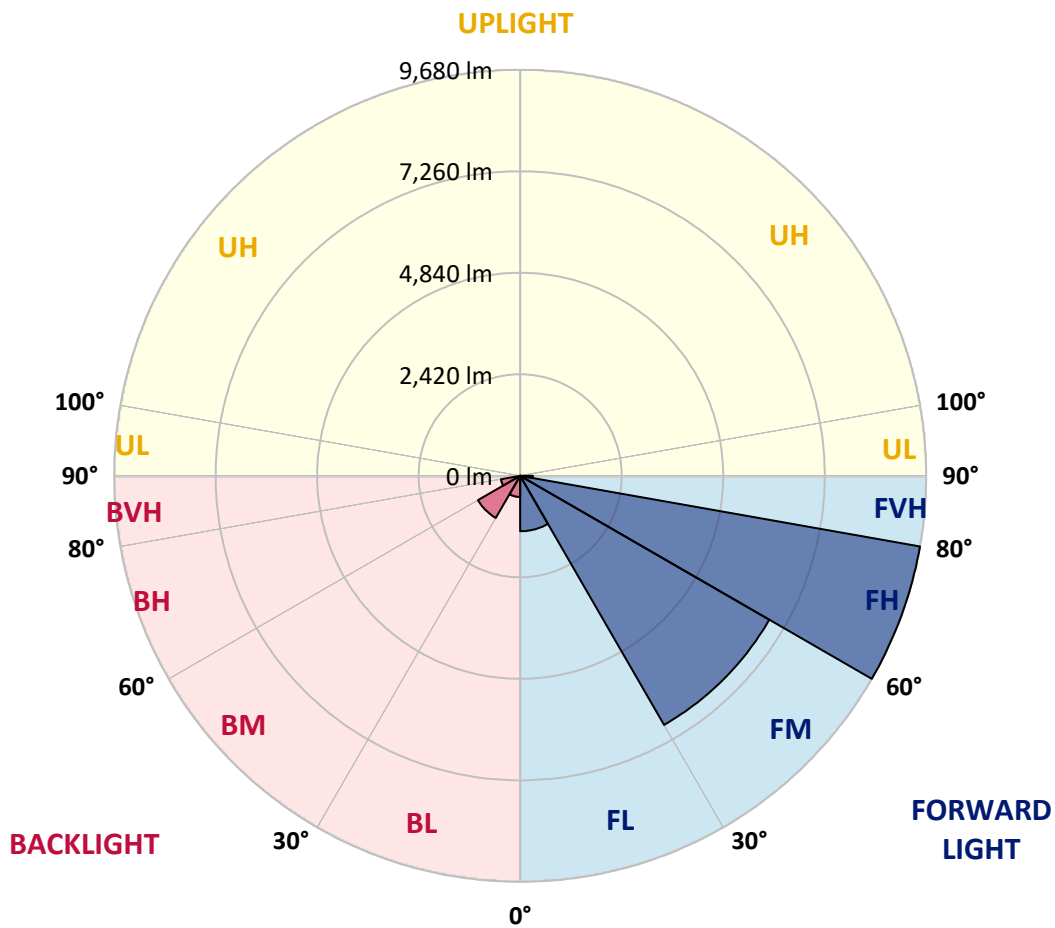
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1322.3	6.5			
FM (30°-60°)	6858.4	33.8			
FH (60°-80°)	9680.5	47.7			G4/12000
FVH (80°-90°)	305.8	1.5			G3/500
BL (0°-30°)	505.2	2.5	B2/1000		
BM (30°-60°)	1160.0	5.7	B2/2500		
BH (60°-80°)	465.1	2.3	B1/500		G1/500
BVH (80°-90°)	2.6	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2223.9	2223.9	2223.9	2223.9	2223.9	2223.9	2223.9	2223.9	2223.9	2223.9	2223.9
2.5°	2429.0	2433.1	2430.4	2413.7	2386.0	2370.8	2362.5	2334.8	2316.7	2284.9	2251.6
5°	2652.1	2668.7	2659.0	2625.7	2573.1	2535.7	2524.6	2467.8	2416.5	2356.9	2287.6
7.5°	2889.0	2897.3	2879.3	2836.3	2765.7	2701.9	2692.2	2613.3	2531.5	2440.1	2345.8
10°	3094.1	3103.8	3076.1	3013.7	2933.3	2854.4	2840.5	2753.2	2656.2	2544.0	2423.4
12.5°	3265.9	3275.6	3239.6	3164.7	3076.1	2994.3	2980.5	2889.0	2782.3	2657.6	2508.0
15°	3396.1	3414.1	3365.7	3285.3	3189.7	3107.9	3101.0	3010.9	2907.0	2768.5	2609.1
17.5°	3472.3	3490.4	3444.6	3347.6	3265.9	3196.6	3188.3	3113.5	3016.5	2883.5	2707.5
20°	3484.8	3501.4	3452.9	3368.4	3300.5	3245.1	3240.9	3186.9	3116.2	2988.8	2814.2
22.5°	3447.4	3468.2	3423.8	3356.0	3308.8	3279.7	3274.2	3243.7	3203.5	3095.5	2913.9
25°	3408.6	3425.2	3392.0	3332.4	3307.5	3304.7	3308.8	3303.3	3295.0	3203.5	3030.3
27.5°	3405.8	3423.8	3386.4	3329.6	3315.8	3344.9	3349.0	3375.4	3382.3	3301.9	3142.6
30°	3429.4	3441.9	3405.8	3346.3	3339.3	3405.8	3407.2	3454.3	3465.4	3385.1	3253.4
32.5°	3480.7	3494.5	3458.5	3371.2	3361.5	3454.3	3458.5	3520.8	3538.9	3473.7	3369.8
35°	3601.2	3617.8	3576.3	3440.5	3405.8	3500.1	3512.5	3586.0	3622.0	3568.0	3490.4
37.5°	3901.9	3853.4	3796.6	3580.4	3507.0	3572.1	3592.9	3678.8	3742.5	3680.2	3634.5
40°	4648.7	4496.3	4319.0	3818.7	3684.3	3725.9	3742.5	3828.4	3915.7	3854.8	3832.6
42.5°	5769.7	5589.6	5304.1	4367.5	3951.8	3972.6	3985.0	4059.8	4183.2	4134.7	4140.2
45°	6768.7	6703.6	6412.6	5304.1	4452.0	4349.4	4364.7	4403.5	4585.0	4567.0	4603.0
47.5°	7536.3	7498.9	7274.5	6379.4	5297.2	4810.8	4853.8	4871.8	5133.7	5197.4	5294.4
50°	8126.6	8112.8	7911.8	7335.4	6401.5	5491.2	5506.4	5467.6	5859.8	6017.7	6202.0
52.5°	8683.6	8730.7	8582.5	8223.6	7580.7	6382.1	6379.4	6196.5	6725.8	6964.1	7278.6
55°	9186.6	9203.2	9218.5	9129.8	8766.8	7396.4	7370.1	7070.8	7730.3	7977.0	8317.8
57.5°	9659.1	9666.0	9801.8	9983.3	10001.4	8485.5	8437.0	8078.1	8827.7	9003.7	9212.9
60°	9976.4	10008.3	10295.1	10799.5	11019.8	9609.2	9582.9	9217.1	9944.5	10026.3	9987.5
62.5°	9519.2	9713.1	10436.4	11436.8	11981.4	10854.9	10842.4	10498.8	11119.5	11053.0	10720.5
65°	7705.4	8033.8	9305.8	11867.8	12925.0	12246.0	12264.1	11898.3	12326.4	12110.3	11316.3
67.5°	5390.0	5736.4	7241.2	11902.4	13979.4	13879.7	13983.6	13410.0	13608.1	13123.1	11457.6
70°	3727.3	3906.0	4885.7	11157.0	14801.1	16129.9	16127.1	15266.7	14882.9	13584.5	10737.1
72.5°	2506.6	2599.4	3173.1	8851.3	14197.0	17467.0	17386.7	16685.5	15312.4	12704.7	8772.3
75°	1057.2	1125.1	1468.7	4974.3	11231.8	15980.3	15762.7	14745.7	13605.3	10004.1	5473.2
77.5°	335.3	364.4	579.2	1780.5	6186.8	12011.9	11781.9	9208.8	9118.7	5018.7	2000.8
80°	159.3	185.7	325.6	715.0	2434.5	6533.2	6501.3	4177.6	3922.7	1355.1	401.8
82.5°	69.3	81.8	180.1	382.4	1089.1	2330.6	2377.7	1421.6	1176.4	514.1	123.3
85°	22.2	29.1	83.1	176.0	460.0	579.2	572.3	338.1	473.9	279.9	43.0
87.5°	0.0	0.0	27.7	40.2	47.1	33.3	37.4	29.1	131.6	77.6	15.2
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°	2223.9	2223.9	2223.9	2223.9	2223.9	2223.9	2223.9	2223.9	2223.9	2223.9	2223.9
2.5°	2235.0	2212.8	2174.0	2138.0	2106.1	2074.3	2054.9	2027.2	2024.4	2024.4	2031.3
5°	2250.2	2214.2	2144.9	2071.5	1987.0	1906.6	1826.2	1748.6	1723.7	1705.7	1714.0
7.5°	2294.6	2237.8	2128.3	1988.4	1827.6	1651.7	1528.3	1395.3	1344.0	1316.3	1320.5
10°	2358.3	2280.7	2114.4	1869.2	1608.7	1369.0	1193.0	1048.9	993.5	969.9	969.9
12.5°	2429.0	2333.4	2089.5	1720.9	1369.0	1082.2	910.3	843.8	835.5	835.5	835.5
15°	2513.5	2397.1	2046.5	1546.3	1118.2	856.3	795.3	798.1	806.4	812.0	812.0
17.5°	2600.8	2465.0	1978.7	1351.0	896.5	770.4	771.8	775.9	782.9	788.4	788.4
20°	2695.0	2532.9	1888.6	1143.1	769.0	745.5	749.6	753.8	759.3	762.1	763.5
22.5°	2796.2	2596.6	1781.9	939.4	726.1	724.7	726.1	730.2	737.1	737.1	739.9
25°	2904.2	2667.3	1660.0	791.2	703.9	703.9	706.7	709.4	715.0	715.0	716.4
27.5°	3015.1	2732.4	1531.1	713.6	684.5	683.1	683.1	687.3	690.0	691.4	692.8
30°	3137.0	2808.6	1402.2	697.0	669.3	662.3	658.2	660.9	663.7	665.1	667.9
32.5°	3261.7	2882.1	1287.2	703.9	654.0	641.5	627.7	624.9	624.9	630.5	634.6
35°	3400.3	2962.4	1198.6	727.4	645.7	611.1	588.9	576.4	577.8	586.1	590.3
37.5°	3566.6	3059.4	1133.4	748.2	640.2	576.4	540.4	525.1	515.4	525.1	522.4
40°	3784.1	3202.2	1086.3	764.9	633.2	536.2	487.7	462.8	444.8	450.3	447.6
42.5°	4104.2	3426.6	1068.3	766.2	618.0	489.1	433.7	400.4	374.1	375.5	370.0
45°	4553.1	3781.3	1161.1	748.2	584.7	437.9	376.9	332.5	315.9	311.8	306.2
47.5°	5168.3	4298.2	1375.9	710.8	536.2	388.0	321.5	284.1	271.6	264.7	260.5
50°	5992.8	4961.9	1614.2	669.3	487.7	340.9	275.7	252.2	243.9	236.9	235.6
52.5°	6948.8	5635.3	1809.6	627.7	439.2	299.3	246.6	232.8	225.9	220.3	218.9
55°	7825.9	6099.5	1798.5	583.3	392.1	266.0	225.9	217.5	209.2	203.7	200.9
57.5°	8371.9	6164.6	1482.6	534.8	338.1	239.7	206.5	200.9	191.2	184.3	182.9
60°	8622.7	5793.2	1039.2	471.1	284.1	214.8	185.7	182.9	170.4	160.7	158.0
62.5°	8668.4	5103.2	692.8	392.1	236.9	191.2	164.9	160.7	144.1	127.5	119.2
65°	8482.7	4116.7	479.4	306.2	202.3	166.3	141.3	133.0	115.0	98.4	92.8
67.5°	7895.2	2890.4	333.9	220.3	171.8	131.6	112.2	109.5	95.6	81.8	77.6
70°	6818.6	1647.5	223.1	164.9	135.8	90.1	88.7	91.5	77.6	66.5	61.0
72.5°	5227.9	753.8	138.6	120.5	92.8	61.0	70.7	72.1	59.6	49.9	44.3
75°	3077.4	322.8	87.3	77.6	47.1	40.2	51.3	52.7	40.2	31.9	27.7
77.5°	1047.5	121.9	55.4	45.7	23.6	22.2	33.3	33.3	22.2	12.5	9.7
80°	238.3	45.7	27.7	18.0	11.1	9.7	11.1	9.7	5.5	1.4	0.0
82.5°	67.9	18.0	11.1	6.9	4.2	4.2	1.4	0.0	0.0	0.0	0.0
85°	19.4	8.3	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.3	1.4	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)