

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: P939904

Luminaire Tested: **GALN-SB2D-722-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939904
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2D-722-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12276 lumens
Efficiency: N/A
Efficacy: 83.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 147.6
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

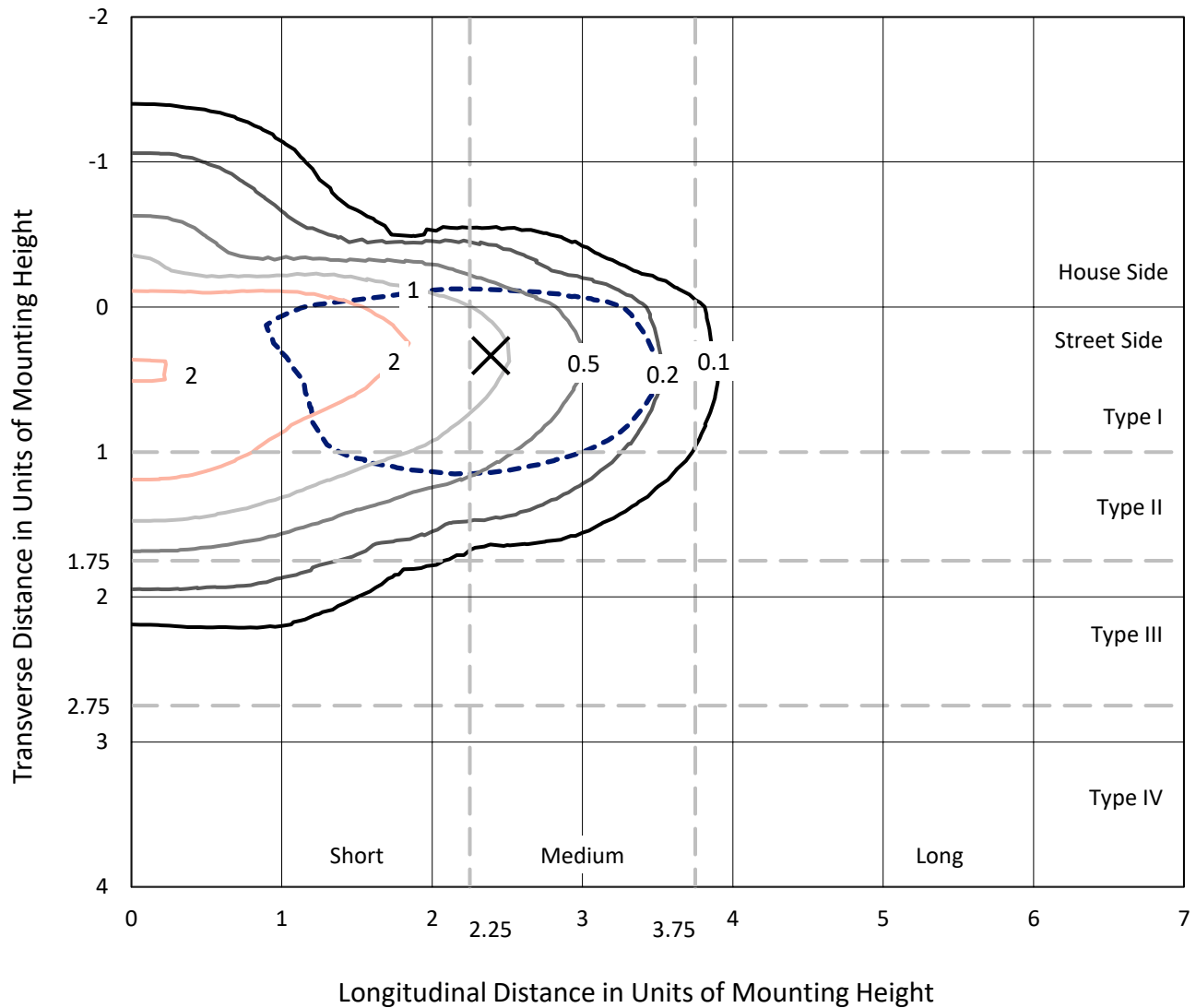


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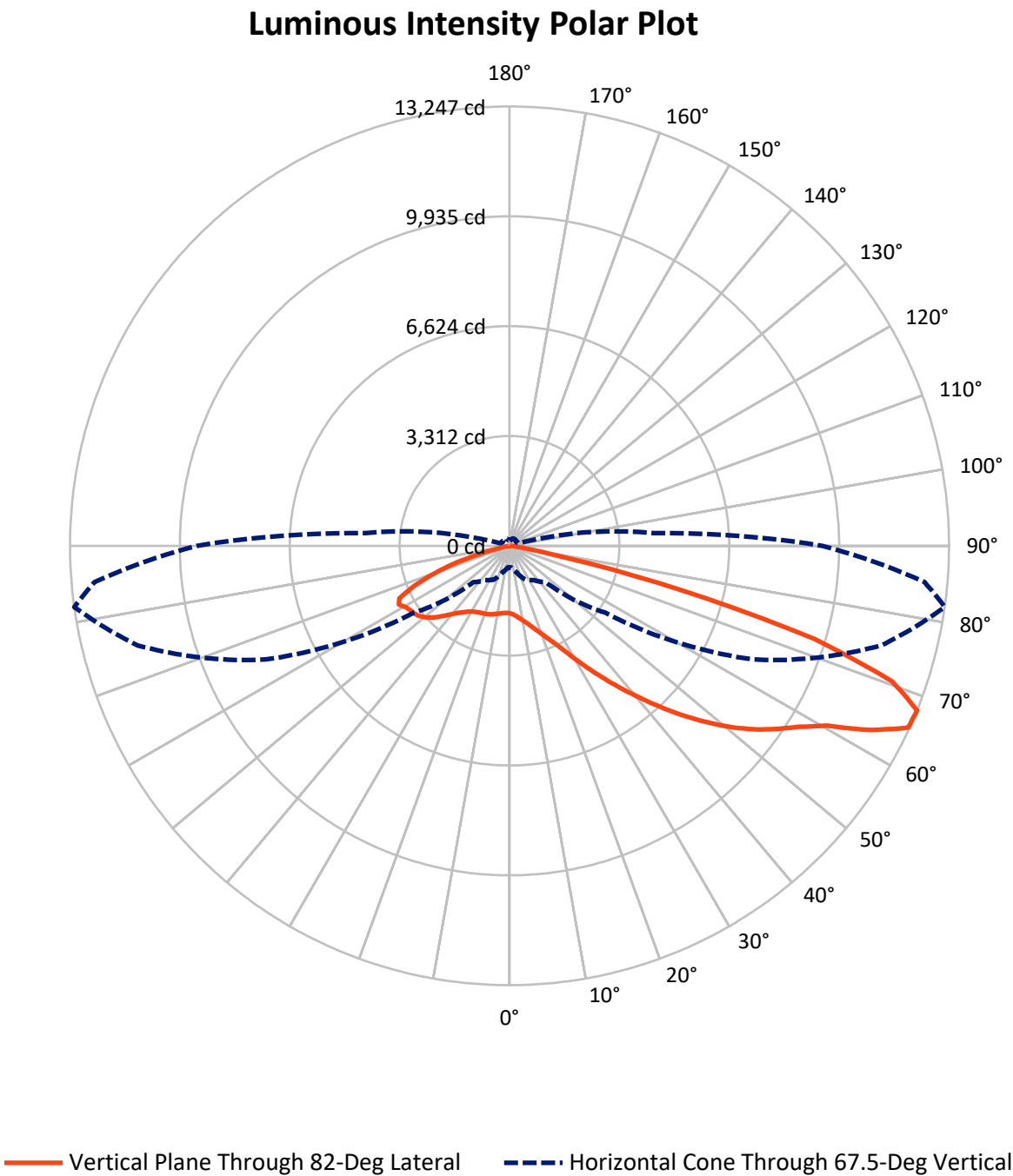
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
Type II - Medium - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2223.7	0.0	2223.7
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	10052.3	0.0	10052.3
	% Fixture	81.9	0.0	81.9
Total	Lumens	12276.0	0.0	12276.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.2	1.5
10°-20°	470.8	3.8
20°-30°	754.1	6.1
30°-40°	1333.5	10.9
40°-50°	2336.5	19.0
50°-60°	3116.2	25.4
60°-70°	2901.0	23.6
70°-80°	1113.4	9.1
80°-90°	69.1	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°	12276.0	100.0
0°-180°	12276.0	100.0

Coefficient of Utilization



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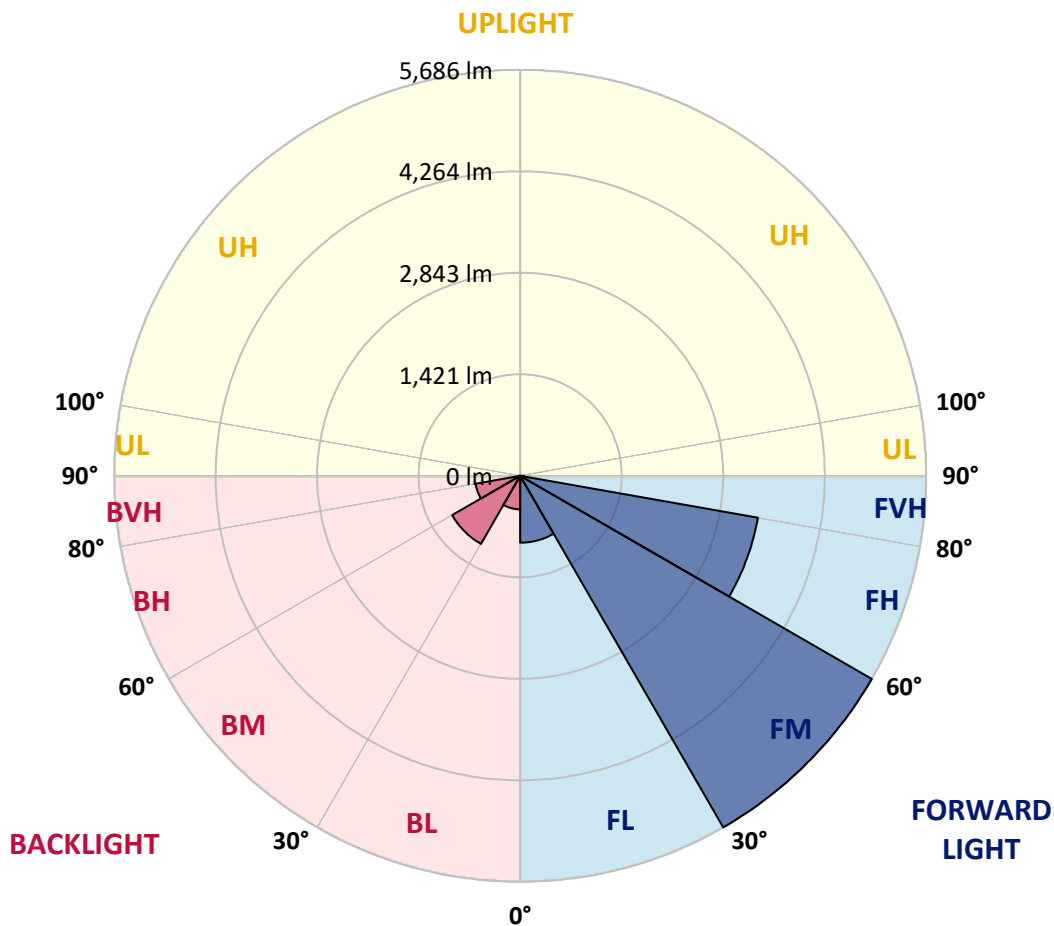
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	936.5	7.6			
FM	(30°-60°)	5685.7	46.3			
FH	(60°-80°)	3379.8	27.5			G2/5000
FVH	(80°-90°)	50.3	0.4			G1/100
BL	(0°-30°)	469.6	3.8	B1/500		
BM	(30°-60°)	1100.5	9.0	B2/2500		
BH	(60°-80°)	634.7	5.2	B2/1000		G2/1000
BVH	(80°-90°)	18.9	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	2033.7	2033.7	2033.7	2033.7	2033.7	2033.7	2033.7	2033.7	2033.7	2033.7	2033.7
2.5°	2149.5	2161.9	2154.8	2151.3	2145.1	2136.2	2129.2	2107.1	2084.1	2069.1	2063.8
5°	2192.8	2205.2	2204.3	2207.8	2212.3	2214.9	2213.1	2188.4	2155.7	2130.1	2115.0
7.5°	2155.7	2169.8	2181.3	2199.0	2229.9	2262.6	2278.5	2273.2	2239.7	2204.3	2185.7
10°	2050.5	2065.5	2092.9	2134.5	2199.9	2270.6	2329.8	2357.2	2336.0	2297.1	2271.5
12.5°	1857.8	1872.9	1926.8	2016.9	2126.5	2249.4	2362.5	2435.9	2441.2	2402.3	2372.2
15°	1641.3	1656.3	1713.8	1826.9	1993.9	2191.0	2380.2	2518.9	2565.8	2532.2	2496.0
17.5°	1506.9	1520.2	1563.5	1654.6	1828.7	2074.4	2374.0	2607.3	2714.3	2687.8	2644.5
20°	1466.3	1477.8	1498.1	1561.7	1706.7	1953.3	2333.3	2690.4	2874.3	2859.2	2810.6
22.5°	1509.6	1520.2	1526.4	1554.7	1645.7	1873.7	2282.1	2775.3	3059.9	3061.6	3002.4
25°	1609.5	1620.1	1613.0	1630.7	1670.5	1849.0	2262.6	2875.1	3293.2	3312.6	3245.5
27.5°	1773.9	1774.8	1758.0	1757.1	1763.3	1886.1	2283.0	2982.1	3587.5	3623.7	3540.7
30°	2103.5	2090.3	2025.8	1955.9	1924.1	1997.5	2339.5	3108.5	3934.9	3999.4	3895.1
32.5°	2611.7	2592.3	2473.9	2306.8	2138.9	2176.9	2441.2	3252.5	4313.1	4429.8	4302.5
35°	3163.3	3158.0	3034.2	2785.9	2492.4	2432.3	2606.4	3441.7	4725.9	4911.5	4760.4
37.5°	3675.9	3673.2	3602.5	3310.0	2952.9	2788.5	2871.6	3689.2	5167.8	5436.5	5258.0
40°	4144.3	4152.3	4081.6	3820.0	3460.2	3245.5	3232.2	3995.0	5659.2	6008.4	5796.2
42.5°	4549.1	4558.0	4486.4	4292.8	3961.4	3751.0	3675.0	4369.7	6139.2	6622.6	6371.6
45°	4824.0	4878.8	4868.2	4713.5	4475.8	4257.5	4207.1	4839.9	6686.3	7274.0	6979.7
47.5°	4901.8	4952.2	5031.7	5052.9	4908.0	4693.2	4753.3	5406.5	7239.5	7926.3	7591.3
50°	4710.0	4756.8	4922.1	5142.2	5242.9	5176.7	5284.5	6013.7	7806.1	8576.8	8191.4
52.5°	4331.7	4379.4	4588.0	4936.3	5347.2	5555.8	5817.4	6612.0	8354.9	9192.8	8759.7
55°	3784.6	3835.0	4102.8	4497.0	5148.4	5712.3	6262.0	7209.5	8857.9	9747.0	9272.4
57.5°	3040.4	3077.5	3355.9	3907.5	4648.1	5556.7	6589.9	7861.8	9331.6	10291.4	9780.6
60°	1981.6	2014.3	2337.8	2952.9	3819.1	5037.0	6655.3	8589.2	9960.9	10999.4	10465.6
62.5°	1317.8	1339.9	1531.7	1983.3	2689.5	4039.2	6272.6	9169.8	10883.6	12231.5	11640.2
65°	904.2	926.3	1118.1	1432.7	1737.6	2671.9	5172.2	9093.0	11719.7	13209.9	12510.8
67.5°	645.2	663.8	826.4	1123.4	1257.7	1552.0	3506.2	8110.1	11599.5	13247.0	12557.6
70°	462.2	472.9	607.2	875.0	999.6	932.5	1949.8	6202.8	10156.2	12232.4	11601.3
72.5°	323.5	327.0	421.6	666.4	805.2	680.6	928.0	4135.5	7681.5	9601.2	8994.0
75°	219.2	223.6	283.7	488.8	646.1	519.7	491.4	2217.6	4509.4	5314.5	4763.9
77.5°	134.3	136.1	183.0	334.1	483.5	396.0	316.4	939.5	1744.7	1712.9	1460.1
80°	76.0	76.0	116.7	207.7	329.7	255.4	221.8	399.5	552.4	485.2	427.8
82.5°	42.4	43.3	84.8	129.0	218.3	151.1	122.0	184.7	238.6	211.2	183.8
85°	17.7	19.4	52.1	61.0	104.3	75.1	49.5	77.8	88.4	78.7	57.4
87.5°	1.8	2.7	15.9	11.5	12.4	15.0	7.1	15.0	12.4	12.4	8.8
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°	2033.7	2033.7	2033.7	2033.7	2033.7	2033.7	2033.7	2033.7	2033.7	2033.7	2033.7
2.5°	2047.0	2033.7	2000.1	1961.2	1910.0	1885.2	1851.6	1828.7	1809.2	1811.0	1793.3
5°	2086.7	2053.2	1978.0	1884.3	1767.7	1684.6	1596.2	1535.2	1485.7	1475.1	1451.3
7.5°	2141.5	2088.5	1956.8	1788.0	1590.9	1441.5	1308.1	1222.4	1161.4	1141.9	1122.5
10°	2212.3	2135.4	1929.4	1666.9	1383.2	1193.2	1050.0	982.8	941.3	927.1	916.5
12.5°	2294.5	2189.3	1893.2	1519.3	1169.3	986.4	895.3	861.7	848.5	844.1	841.4
15°	2397.9	2256.4	1838.4	1344.3	988.1	860.0	821.1	816.7	818.4	816.7	815.8
17.5°	2520.7	2329.8	1749.1	1164.0	866.2	795.5	781.3	784.9	789.3	788.4	786.6
20°	2655.1	2402.3	1635.1	1004.0	783.1	749.5	741.5	745.1	748.6	746.8	746.0
22.5°	2808.0	2480.1	1508.7	879.4	727.4	707.1	698.2	699.1	699.1	695.6	693.8
25°	2990.9	2565.8	1376.1	791.0	685.0	669.1	658.5	654.9	649.6	639.0	637.2
27.5°	3209.2	2656.8	1248.9	729.2	651.4	636.4	624.0	615.2	601.9	584.2	582.5
30°	3454.9	2767.3	1141.0	690.3	624.9	609.9	595.7	582.5	563.0	540.9	539.1
32.5°	3743.9	2885.7	1062.4	664.6	601.0	585.1	568.3	552.4	531.2	509.1	510.0
35°	4088.6	3028.9	1016.4	647.0	582.5	561.2	542.7	525.0	509.1	489.6	487.9
37.5°	4462.5	3180.9	1002.3	638.1	570.1	537.4	516.2	503.8	502.0	490.5	489.6
40°	4871.7	3361.2	1012.9	632.8	556.8	514.4	491.4	488.8	493.2	472.9	473.7
42.5°	5304.8	3575.1	1030.6	626.6	538.3	491.4	469.3	469.3	465.8	437.5	437.5
45°	5773.2	3821.7	1048.2	611.6	516.2	468.4	451.6	445.5	430.4	403.0	402.1
47.5°	6245.2	4072.7	1061.5	584.2	489.6	449.0	434.0	419.8	397.7	373.0	372.1
50°	6693.3	4298.1	1047.4	543.6	459.6	430.4	414.5	395.1	371.2	354.4	351.8
52.5°	7093.7	4493.4	987.3	495.8	427.8	411.0	396.8	376.5	357.1	339.4	337.6
55°	7441.9	4651.7	881.2	450.8	399.5	394.2	380.1	354.4	327.9	312.9	311.1
57.5°	7776.0	4771.9	748.6	413.6	373.9	375.6	354.4	331.4	306.7	290.8	289.0
60°	8220.6	4932.7	614.3	379.2	346.5	351.8	328.8	312.0	281.1	260.7	258.1
62.5°	8931.2	5182.8	487.9	336.7	314.6	316.4	306.7	286.4	249.2	225.4	223.6
65°	9495.1	5090.9	384.5	290.8	278.4	281.1	281.1	259.0	219.2	191.8	189.1
67.5°	9431.5	4359.1	306.7	245.7	243.9	245.7	251.9	233.3	194.4	172.3	168.8
70°	8688.2	3467.3	245.7	204.2	212.1	207.7	225.4	213.0	175.0	152.9	150.3
72.5°	7089.3	2497.7	187.4	168.8	162.6	169.7	203.3	191.8	145.8	121.1	118.4
75°	4142.6	1332.8	139.6	133.5	117.6	141.4	180.3	163.5	111.4	89.3	86.6
77.5°	1348.7	464.9	102.5	98.1	87.5	114.0	153.8	137.9	91.0	70.7	68.1
80°	361.5	140.5	69.8	64.5	56.6	84.8	122.0	109.6	65.4	46.0	45.1
82.5°	144.9	59.2	40.7	36.2	30.9	58.3	96.3	88.4	48.6	29.2	29.2
85°	46.8	19.4	15.0	11.5	14.1	36.2	57.4	60.1	34.5	15.0	11.5
87.5°	6.2	2.7	2.7	3.5	2.7	6.2	17.7	16.8	9.7	1.8	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)