

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: P939905

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939905
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
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
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16657 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

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



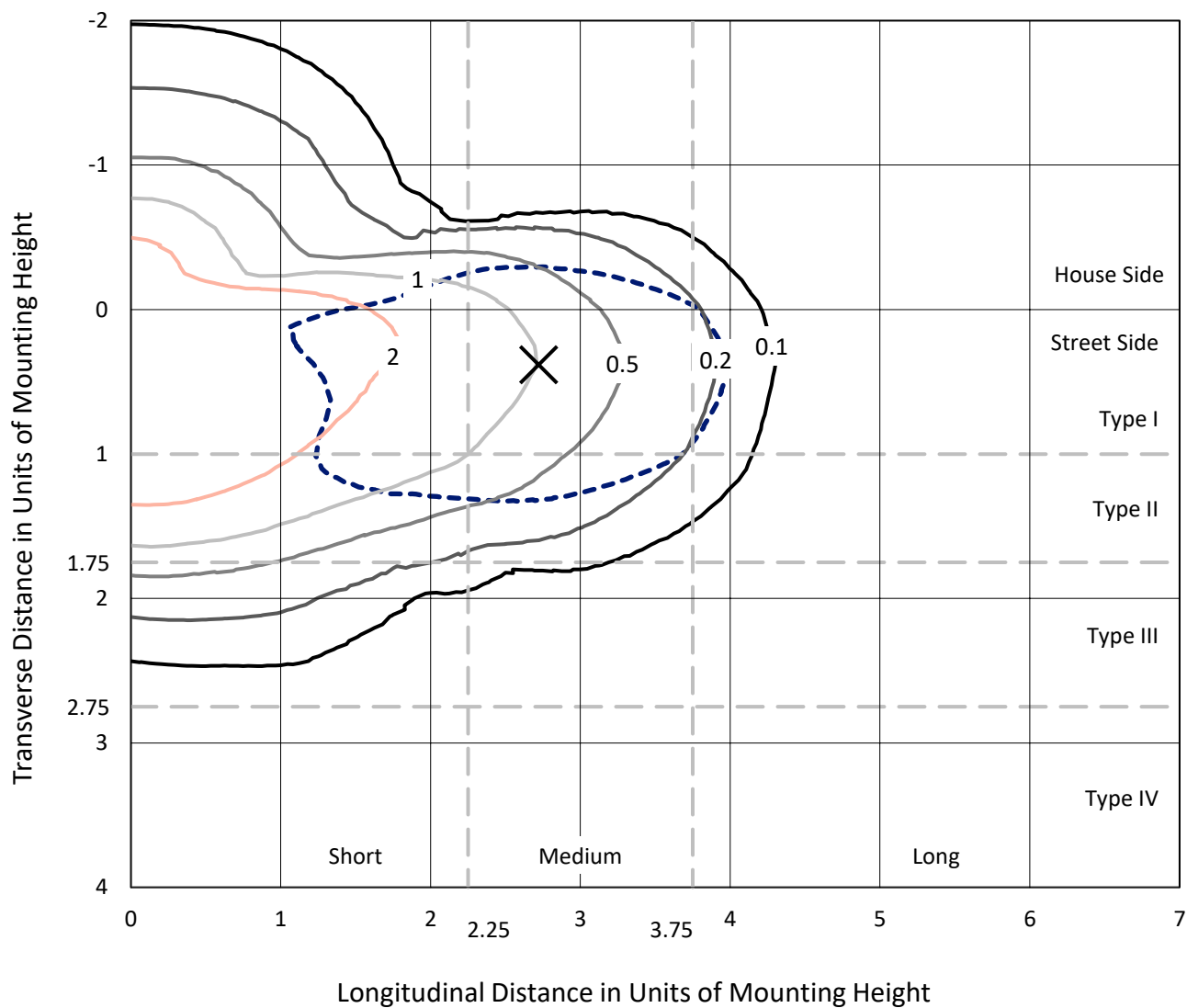
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

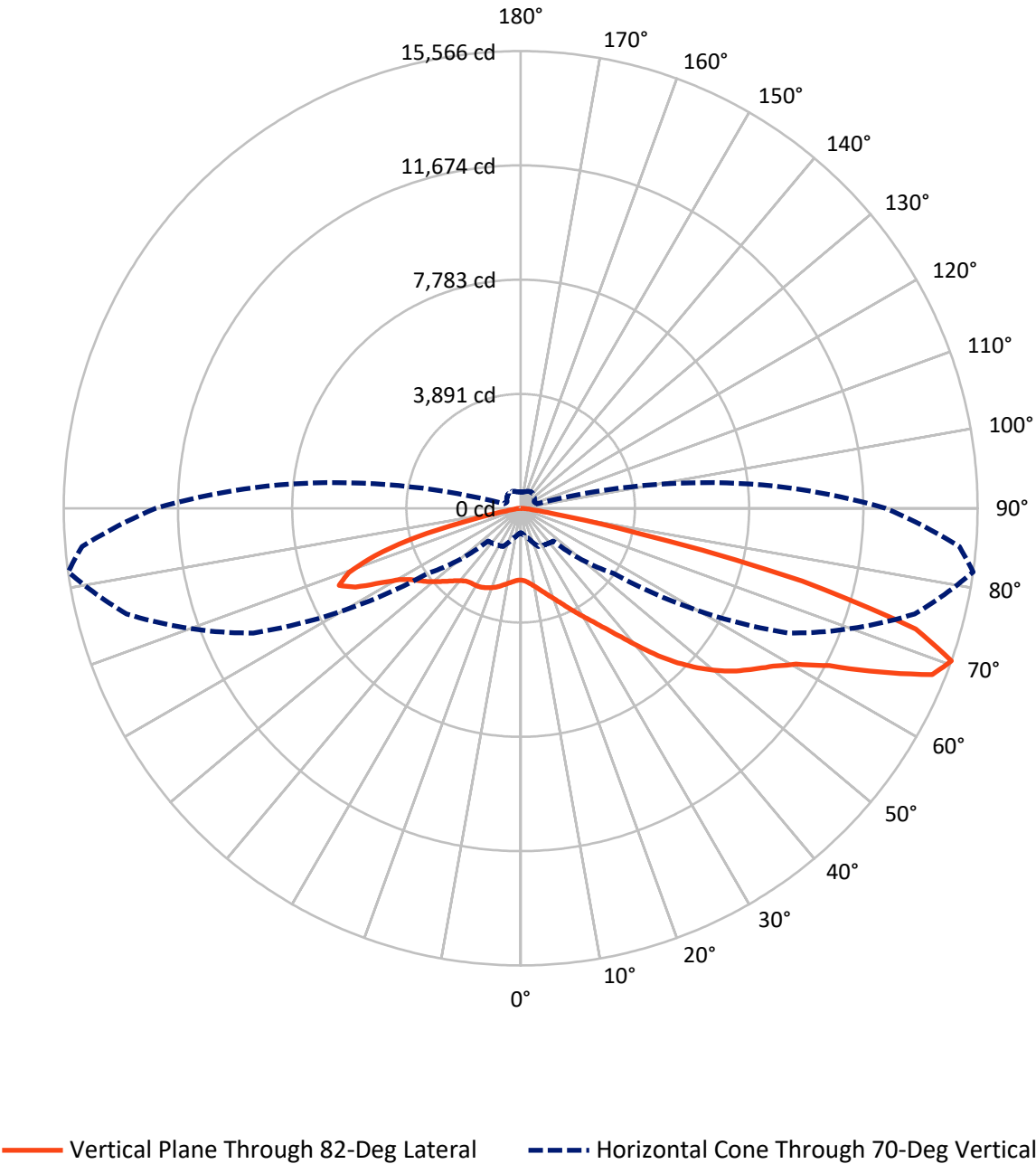
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4106.4	0.0	4106.4
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	12550.6	0.0	12550.6
	% Fixture	75.3	0.0	75.3
Total	Lumens	16657.0	0.0	16657.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.6	1.4
10°-20°	662.5	4.0
20°-30°	1108.2	6.7
30°-40°	1731.4	10.4
40°-50°	2757.4	16.6
50°-60°	3837.3	23.0
60°-70°	4013.9	24.1
70°-80°	2097.9	12.6
80°-90°	217.8	1.3
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°	16657.0	100.0
0°-180°	16657.0	100.0

Coefficient of Utilization



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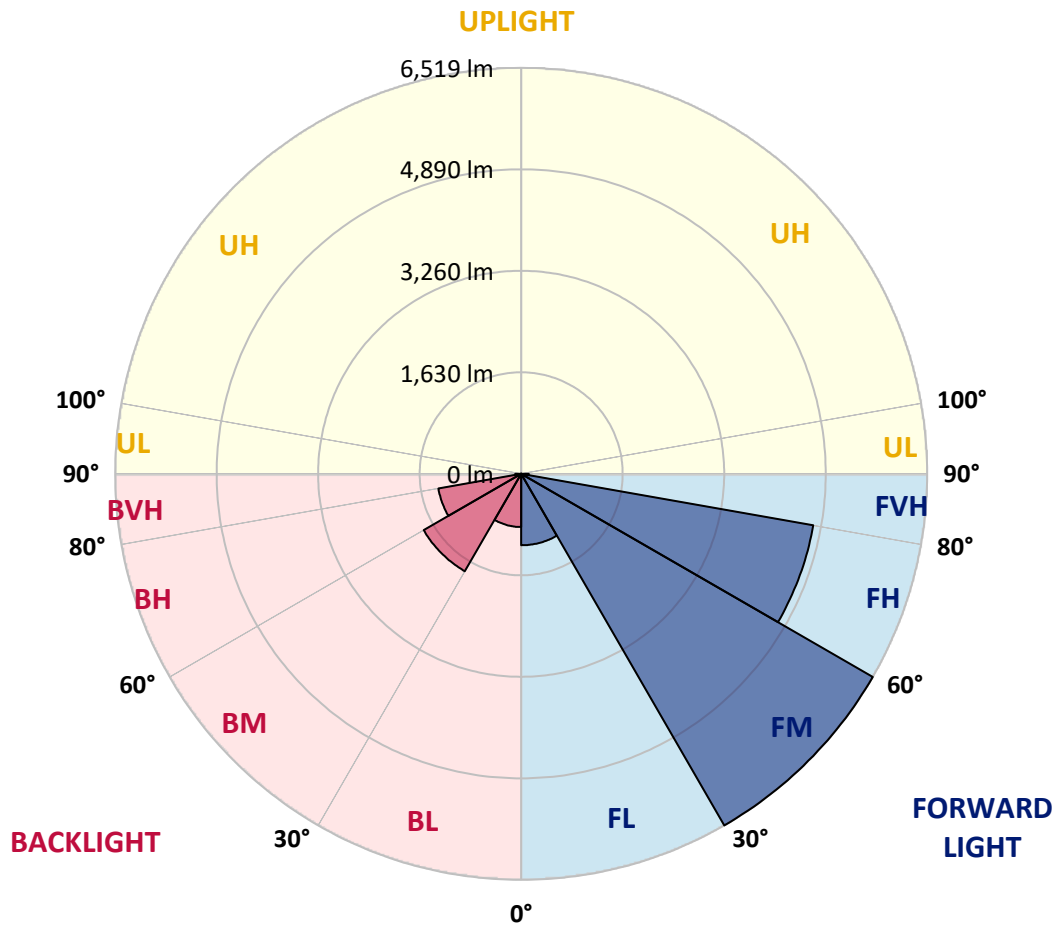
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1147.0	6.9			
FM	(30°-60°)	6519.4	39.1			
FH	(60°-80°)	4762.3	28.6			G2/5000
FVH	(80°-90°)	121.9	0.7			G2/225
BL	(0°-30°)	854.3	5.1	B2/1000		
BM	(30°-60°)	1806.6	10.8	B2/2500		
BH	(60°-80°)	1349.6	8.1	B3/2500		G3/2500
BVH	(80°-90°)	95.9	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	2442.1	2442.1	2442.1	2442.1	2442.1	2442.1	2442.1	2442.1	2442.1	2442.1	2442.1
2.5°	2500.5	2514.6	2510.2	2505.8	2505.8	2499.6	2498.7	2489.9	2482.8	2471.3	2468.6
5°	2532.3	2547.3	2545.5	2549.1	2560.6	2563.2	2565.9	2560.6	2546.4	2532.3	2526.1
7.5°	2504.0	2520.8	2526.1	2547.3	2582.7	2614.5	2638.3	2648.1	2634.8	2614.5	2604.8
10°	2408.5	2427.1	2445.7	2496.0	2558.8	2633.9	2697.6	2735.6	2732.9	2713.5	2696.7
12.5°	2215.0	2234.4	2274.2	2372.3	2487.2	2619.8	2738.2	2817.8	2845.2	2831.0	2801.9
15°	2060.3	2077.1	2107.1	2207.9	2357.3	2558.8	2753.2	2907.9	2977.7	2969.8	2934.4
17.5°	2055.9	2062.9	2081.5	2129.2	2244.1	2463.3	2737.3	2996.3	3129.8	3128.9	3084.7
20°	2133.7	2136.3	2146.9	2156.6	2222.0	2390.9	2696.7	3069.7	3300.4	3300.4	3252.6
22.5°	2241.5	2239.7	2250.3	2241.5	2273.3	2384.7	2671.0	3134.2	3490.4	3504.5	3444.4
25°	2403.2	2394.4	2391.7	2371.4	2377.6	2442.1	2699.3	3207.6	3715.8	3744.9	3669.8
27.5°	2618.9	2604.8	2595.0	2548.2	2532.3	2560.6	2785.9	3295.9	3966.8	4017.2	3921.7
30°	2900.0	2874.3	2860.2	2778.9	2721.4	2725.8	2916.8	3413.5	4229.3	4310.6	4189.5
32.5°	3283.6	3243.8	3205.8	3072.3	2967.1	2932.7	3085.6	3576.1	4513.9	4643.8	4488.3
35°	3713.1	3681.3	3640.6	3434.7	3273.0	3193.4	3313.6	3803.3	4847.1	5053.1	4850.7
37.5°	4126.8	4099.4	4118.8	3841.3	3632.7	3516.9	3612.4	4108.2	5258.1	5562.2	5305.0
40°	4554.6	4533.4	4536.0	4270.8	4027.8	3897.9	3974.7	4490.9	5729.2	6167.6	5851.2
42.5°	5019.5	5003.6	4950.5	4715.4	4442.3	4321.2	4391.9	4932.9	6234.8	6857.0	6450.5
45°	5540.1	5530.4	5480.9	5211.3	4898.4	4762.3	4857.7	5420.8	6743.0	7505.8	7052.4
47.5°	5990.0	5997.9	5991.7	5764.6	5440.2	5240.4	5354.5	5929.9	7215.9	8115.7	7629.5
50°	6206.5	6248.1	6309.0	6238.3	6036.8	5833.5	5855.6	6421.3	7666.7	8687.5	8182.8
52.5°	6093.4	6172.0	6338.2	6451.3	6529.1	6486.7	6427.5	6909.2	8090.9	9203.7	8706.1
55°	5671.8	5782.3	6058.0	6331.1	6728.0	7036.5	7114.2	7450.1	8504.6	9658.0	9201.1
57.5°	4903.7	5083.1	5330.6	5883.0	6551.2	7302.5	7915.0	8200.5	8943.0	10143.3	9719.0
60°	3586.7	3827.1	4134.7	4956.7	5932.5	7160.2	8596.5	9353.1	9566.1	10771.7	10393.4
62.5°	2295.4	2443.9	2726.7	3501.0	4622.6	6431.0	8805.1	10793.8	10622.3	11802.3	11404.5
65°	1571.5	1667.0	1925.9	2360.8	2988.4	4787.0	8246.5	11873.9	12299.9	13435.7	13133.4
67.5°	1142.0	1214.4	1435.4	1816.3	1947.2	2832.8	6399.2	11824.4	13930.6	15118.5	14648.3
70°	832.6	883.9	1069.5	1435.4	1498.2	1575.9	3876.6	10051.3	13895.3	15565.8	15002.8
72.5°	616.9	652.3	776.9	1113.7	1212.7	1064.2	1918.9	7305.2	11940.2	14079.1	13627.5
75°	446.4	472.9	564.8	852.0	970.5	810.5	957.2	4269.1	8328.7	9903.7	9983.3
77.5°	341.2	361.5	421.6	624.0	776.9	608.1	594.0	1964.0	3949.1	3968.6	4191.3
80°	274.0	287.3	320.0	439.3	595.7	455.2	387.1	792.8	1248.0	1056.2	1108.4
82.5°	201.5	223.6	270.5	308.5	426.0	313.8	236.0	400.4	474.6	408.3	411.9
85°	114.9	129.9	163.5	221.0	272.2	191.8	135.2	177.7	221.0	181.2	161.7
87.5°	40.7	53.0	57.5	86.6	118.4	79.5	52.1	51.3	72.5	53.9	45.1
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°	2442.1	2442.1	2442.1	2442.1	2442.1	2442.1	2442.1	2442.1	2442.1	2442.1	2442.1
2.5°	2459.8	2455.4	2437.7	2413.8	2389.1	2365.2	2357.3	2340.5	2329.0	2322.8	2329.9
5°	2509.3	2495.2	2453.6	2400.6	2344.9	2284.8	2242.4	2203.5	2175.2	2148.7	2159.3
7.5°	2580.0	2555.3	2483.7	2390.9	2291.9	2192.0	2117.7	2061.2	2023.2	1998.4	2003.7
10°	2662.2	2624.2	2514.6	2375.8	2222.9	2079.7	1992.2	1943.6	1919.8	1906.5	1910.0
12.5°	2756.8	2702.9	2546.4	2341.4	2117.7	1954.2	1894.1	1880.0	1880.9	1881.8	1883.5
15°	2873.5	2798.3	2572.1	2266.2	1980.7	1857.9	1847.3	1870.3	1894.1	1905.6	1904.7
17.5°	3005.1	2899.1	2576.5	2142.5	1846.4	1796.0	1829.6	1879.1	1915.3	1931.2	1934.8
20°	3146.6	3001.6	2544.7	1967.5	1735.9	1745.6	1805.7	1869.4	1909.2	1929.5	1934.8
22.5°	3308.3	3111.2	2468.6	1783.6	1645.8	1690.8	1761.5	1823.4	1865.0	1885.3	1890.6
25°	3493.0	3234.1	2349.3	1629.0	1568.0	1629.0	1699.7	1750.9	1784.5	1803.1	1808.4
27.5°	3698.1	3362.2	2190.2	1506.1	1499.9	1565.3	1623.7	1663.4	1681.1	1695.3	1700.6
30°	3904.0	3478.9	1997.5	1413.3	1440.7	1502.6	1544.1	1561.8	1567.1	1569.7	1575.9
32.5°	4126.8	3579.7	1795.1	1336.4	1384.1	1441.6	1466.3	1474.3	1449.5	1432.7	1438.1
35°	4396.4	3687.5	1597.1	1275.4	1328.5	1377.9	1385.9	1378.8	1349.7	1315.2	1317.0
37.5°	4729.6	3821.8	1438.9	1232.1	1276.3	1309.0	1299.3	1297.5	1300.2	1259.5	1262.2
40°	5137.9	3996.8	1323.1	1198.5	1233.9	1240.9	1213.5	1228.6	1241.8	1180.0	1181.7
42.5°	5591.3	4208.1	1249.8	1175.5	1198.5	1181.7	1139.3	1156.1	1154.3	1073.0	1072.1
45°	6053.6	4437.9	1224.2	1158.7	1165.8	1132.2	1085.4	1089.8	1052.7	979.3	982.0
47.5°	6513.2	4684.5	1240.1	1144.6	1125.2	1087.2	1050.9	1031.5	976.7	921.9	921.9
50°	6964.0	4943.5	1298.4	1116.3	1069.5	1047.4	1020.9	986.4	928.1	881.2	877.7
52.5°	7382.1	5204.2	1363.8	1069.5	999.7	1012.9	996.1	956.3	898.9	851.2	852.0
55°	7778.0	5464.9	1389.4	1005.0	934.2	982.9	973.1	899.8	830.8	791.9	788.4
57.5°	8209.4	5778.7	1361.2	922.8	881.2	948.4	911.3	830.0	790.2	761.0	758.4
60°	8806.9	6271.0	1300.2	821.1	830.8	897.1	833.5	799.9	756.6	723.9	722.1
62.5°	9799.4	7189.4	1202.1	720.4	771.6	821.1	796.4	762.8	718.6	686.8	686.8
65°	11266.7	8465.7	1017.3	641.7	705.3	746.9	756.6	723.0	677.0	643.5	645.2
67.5°	12504.1	9266.5	769.8	576.3	637.3	686.8	714.2	681.5	632.8	600.1	601.0
70°	12436.0	8684.9	587.8	511.8	577.2	627.5	662.9	637.3	585.1	554.2	556.8
72.5°	11045.7	7265.4	475.5	446.4	516.2	565.7	608.1	588.7	535.6	505.6	505.6
75°	8114.8	5157.4	380.1	380.1	440.2	501.2	548.0	535.6	487.0	465.8	459.6
77.5°	3420.6	2163.7	297.9	315.5	365.9	430.4	488.8	493.2	450.8	477.3	433.1
80°	909.5	596.6	227.2	248.4	287.3	355.3	425.1	423.4	377.4	352.7	327.9
82.5°	346.5	235.1	161.7	175.0	207.7	272.2	336.8	347.4	301.4	260.7	260.7
85°	133.5	100.8	99.9	105.2	121.1	180.3	254.6	263.4	227.2	192.7	198.9
87.5°	34.5	30.1	37.1	35.4	55.7	96.3	145.8	151.1	138.8	80.4	114.9
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)