

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: P527876

Luminaire Tested: **GALN-SA2D-830-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527876
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-830-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10370 lumens
Efficiency: N/A
Efficacy: 83.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 125
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

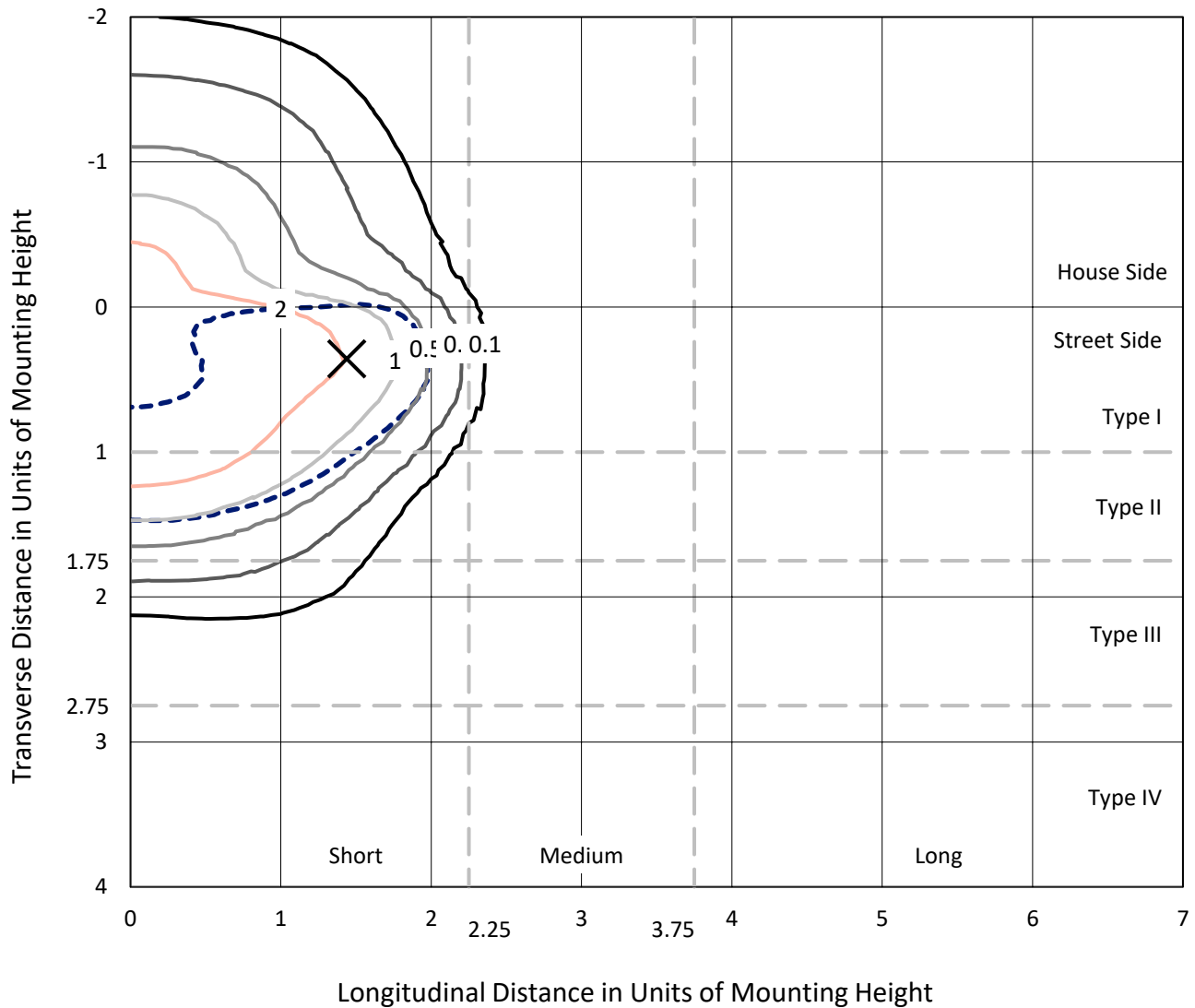


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

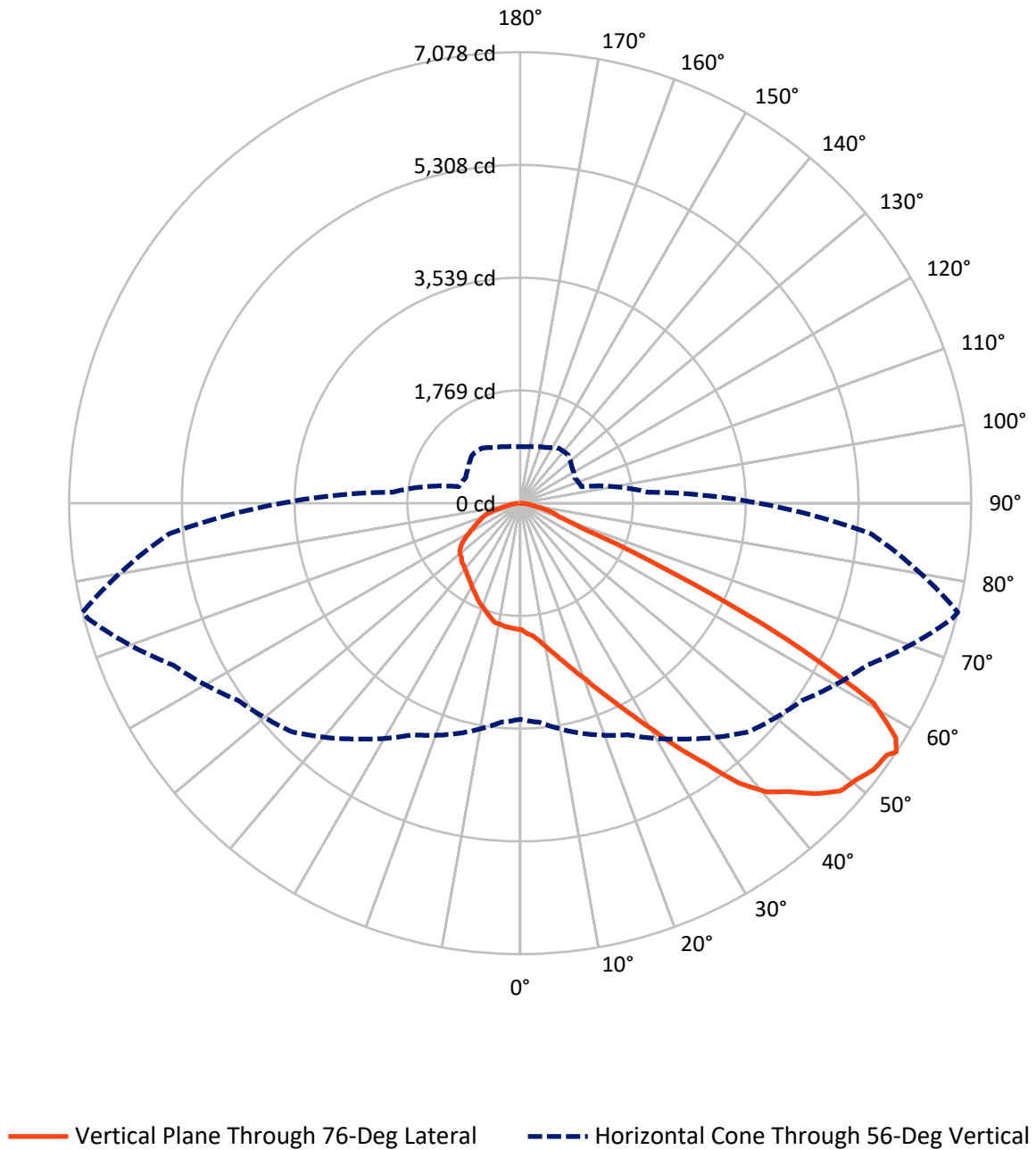


Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2788.2	0.0	2788.2
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	7581.8	0.0	7581.8
	% Fixture	73.1	0.0	73.1
Total	Lumens	10370.0	0.0	10370.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.8	1.9
10°-20°	618.1	6.0
20°-30°	1081.0	10.4
30°-40°	1692.5	16.3
40°-50°	2462.2	23.7
50°-60°	2706.1	26.1
60°-70°	1207.9	11.6
70°-80°	348.9	3.4
80°-90°	56.6	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°	10370.0	100.0
0°-180°	10370.0	100.0

Coefficient of Utilization



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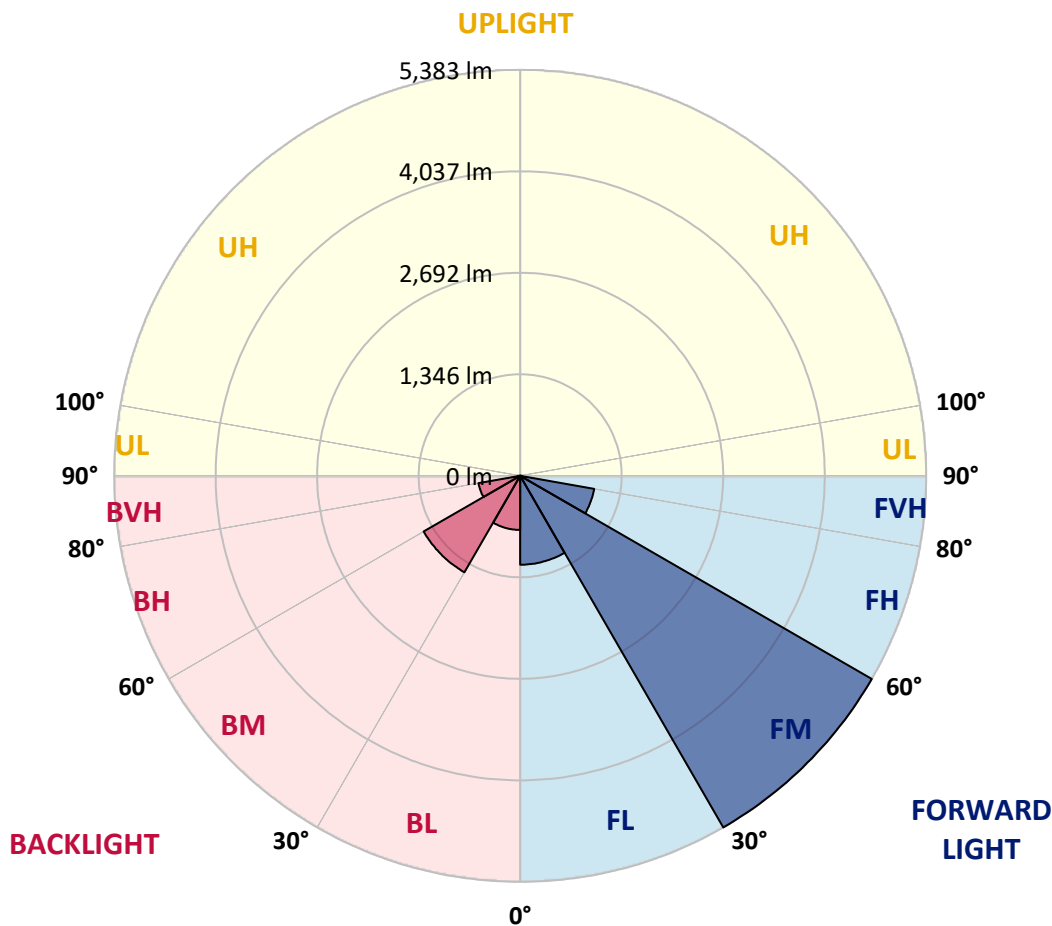
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1178.4	11.4			
FM	(30°-60°)	5383.3	51.9			
FH	(60°-80°)	995.8	9.6			G1/1800
FVH	(80°-90°)	24.4	0.2			G1/100
BL	(0°-30°)	717.5	6.9	B2/1000		
BM	(30°-60°)	1477.5	14.2	B2/2500		
BH	(60°-80°)	561.0	5.4	B2/1000		G2/1000
BVH	(80°-90°)	32.2	0.3			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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1984.2	1984.2	1984.2	1984.2	1984.2	1984.2	1984.2	1984.2	1984.2	1984.2	1984.2
2.5°	2185.8	2150.9	2148.2	2138.8	2144.1	2119.9	2094.4	2060.8	2025.8	2047.3	1996.3
5°	2339.1	2292.0	2310.8	2278.6	2282.6	2250.3	2197.9	2158.9	2115.9	2090.4	2054.1
7.5°	2392.8	2396.9	2410.3	2404.9	2378.0	2378.0	2343.1	2274.5	2199.3	2184.5	2124.0
10°	2465.4	2466.8	2452.0	2456.0	2493.7	2476.2	2445.3	2415.7	2318.9	2301.4	2193.9
12.5°	2491.0	2466.8	2491.0	2512.5	2556.8	2581.0	2574.3	2552.8	2449.3	2437.2	2279.9
15°	2495.0	2480.2	2500.4	2548.8	2587.8	2689.9	2741.0	2726.2	2589.1	2590.4	2376.7
17.5°	2476.2	2496.3	2504.4	2546.1	2636.1	2731.6	2879.5	2899.6	2786.7	2769.2	2499.0
20°	2501.7	2486.9	2497.7	2535.3	2655.0	2804.2	2997.8	3130.8	2972.2	2960.1	2625.4
22.5°	2599.8	2579.7	2577.0	2601.2	2687.2	2841.8	3122.8	3362.1	3198.1	3204.8	2782.7
25°	2676.5	2687.2	2677.8	2676.5	2730.2	2898.3	3288.1	3637.6	3504.6	3465.6	2968.2
27.5°	2808.2	2833.8	2814.9	2840.5	2828.4	2983.0	3406.4	3942.8	3835.2	3782.8	3136.2
30°	2991.0	3004.5	2987.0	2987.0	2950.7	3101.3	3514.0	4261.4	4217.0	4145.8	3333.8
32.5°	3231.7	3251.8	3216.9	3196.7	3191.3	3277.4	3707.5	4576.0	4651.2	4590.7	3596.0
35°	3550.3	3538.2	3496.5	3477.7	3405.1	3547.6	3995.2	4937.6	5135.2	5027.6	3913.2
37.5°	3831.2	3812.4	3809.7	3704.9	3722.3	3839.3	4239.9	5211.8	5604.3	5573.4	4247.9
40°	4093.4	4110.8	4139.1	4079.9	4053.0	4182.1	4524.9	5421.5	5968.6	5956.5	4506.0
42.5°	4374.3	4358.2	4407.9	4358.2	4317.8	4500.7	4834.1	5566.7	6288.6	6189.1	4776.2
45°	4781.6	4730.5	4748.0	4752.1	4722.5	4789.7	4961.8	5671.5	6513.1	6502.3	4973.9
47.5°	5121.7	5123.1	5093.5	5070.6	4980.6	5047.8	5104.3	5737.4	6771.2	6753.7	5050.5
50°	5248.1	5230.6	5316.7	5366.4	5371.8	5234.7	5215.8	5773.7	6906.9	6830.3	5127.1
52.5°	4793.7	4809.9	4945.6	5241.4	5412.1	5426.9	5346.2	5849.0	6962.1	6945.9	5188.9
55°	3858.1	3936.1	4159.2	4500.7	4905.3	5350.3	5487.4	5927.0	6991.6	6978.2	5463.2
56°	3391.6	3452.1	3742.5	4010.0	4518.1	5072.0	5398.7	6010.3	7014.5	7077.7	5527.7
57.5°	2730.2	2800.1	3008.5	3312.3	3911.9	4542.3	5154.0	5908.1	6925.8	6950.0	5574.8
60°	1707.2	1714.0	1964.0	2164.3	2586.4	3202.1	3933.4	5140.6	6409.6	6374.6	5007.5
62.5°	1119.8	1121.1	1348.3	1512.3	1704.6	1845.7	2314.9	3409.1	4729.2	4667.4	3565.0
65°	786.4	803.9	980.0	1199.1	1277.1	1203.1	1188.3	1797.3	2641.5	2552.8	1915.6
67.5°	575.4	576.7	732.6	967.9	1080.8	915.5	743.4	877.8	1045.9	1043.2	887.2
70°	380.4	396.6	516.2	723.2	852.3	735.3	607.6	627.8	665.4	665.4	660.0
72.5°	221.8	236.6	315.9	458.4	478.6	459.7	481.3	537.7	561.9	560.6	553.8
75°	126.4	133.1	150.6	190.9	237.9	281.0	353.5	407.3	431.5	446.3	428.8
77.5°	73.9	78.0	88.7	108.9	123.7	151.9	192.2	229.9	262.1	258.1	260.8
80°	39.0	39.0	49.7	64.5	86.0	107.5	127.7	149.2	166.7	170.7	174.8
82.5°	22.9	24.2	32.3	47.1	61.8	76.6	98.1	112.9	129.1	130.4	133.1
85°	12.1	13.4	20.2	30.9	41.7	47.1	48.4	45.7	49.7	47.1	53.8
87.5°	4.0	4.0	6.7	5.4	5.4	6.7	8.1	8.1	10.8	10.8	10.8
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°	1984.2	1984.2	1984.2	1984.2	1984.2	1984.2	1984.2	1984.2	1984.2	1984.2	1984.2
2.5°	1994.9	1994.9	1972.1	1929.1	1922.3	1904.9	1888.7	1887.4	1875.3	1864.5	1859.1
5°	2032.6	1990.9	1957.3	1918.3	1872.6	1851.1	1826.9	1800.0	1789.2	1800.0	1798.7
7.5°	2075.6	2040.6	1939.8	1867.2	1814.8	1793.3	1766.4	1738.2	1740.9	1740.9	1722.0
10°	2117.3	2070.2	1908.9	1816.1	1739.5	1723.4	1708.6	1719.3	1732.8	1735.5	1723.4
12.5°	2187.2	2081.0	1894.1	1765.0	1716.7	1681.7	1691.1	1720.7	1748.9	1740.9	1750.3
15°	2239.6	2090.4	1826.9	1712.6	1652.1	1668.3	1701.9	1722.0	1769.1	1763.7	1773.1
17.5°	2290.7	2095.7	1761.0	1642.7	1617.2	1661.5	1687.1	1744.9	1759.7	1791.9	1804.0
20°	2395.5	2106.5	1693.8	1599.7	1591.6	1642.7	1687.1	1714.0	1746.2	1774.5	1774.5
22.5°	2449.3	2101.1	1649.4	1543.2	1568.8	1601.0	1641.4	1687.1	1687.1	1714.0	1715.3
25°	2516.5	2079.6	1579.5	1516.4	1535.2	1566.1	1611.8	1595.7	1613.1	1613.1	1634.7
27.5°	2593.1	2033.9	1519.0	1468.0	1505.6	1539.2	1545.9	1535.2	1515.0	1512.3	1504.3
30°	2655.0	1977.4	1474.7	1451.8	1482.7	1501.6	1480.1	1457.2	1422.3	1419.6	1400.7
32.5°	2739.7	1907.5	1419.6	1411.5	1446.5	1447.8	1441.1	1406.1	1355.0	1333.5	1312.0
35°	2882.1	1867.2	1377.9	1390.0	1400.7	1396.7	1384.6	1347.0	1295.9	1286.5	1278.4
37.5°	2987.0	1837.6	1334.9	1349.7	1359.1	1364.5	1328.2	1286.5	1287.8	1269.0	1263.6
40°	3105.3	1818.8	1299.9	1306.6	1308.0	1325.5	1281.1	1260.9	1270.4	1258.3	1266.3
42.5°	3257.2	1824.2	1263.6	1258.3	1283.8	1277.1	1255.6	1228.7	1234.1	1197.8	1203.1
45°	3337.9	1860.5	1242.1	1217.9	1246.2	1244.8	1216.6	1191.0	1158.8	1088.9	1091.6
47.5°	3391.6	1869.9	1191.0	1174.9	1204.5	1222.0	1189.7	1130.5	1084.8	1035.1	1023.0
50°	3446.7	1887.4	1166.8	1133.2	1145.3	1187.0	1146.7	1090.2	1045.9	1001.5	1008.2
52.5°	3495.1	1921.0	1119.8	1070.1	1091.6	1137.3	1115.8	1047.2	998.8	962.5	951.8
55°	3710.2	1996.3	1040.5	976.0	1027.0	1084.8	1072.7	989.4	937.0	918.1	915.5
56°	3743.8	1999.0	998.8	943.7	990.7	1067.4	1052.6	963.9	916.8	887.2	888.6
57.5°	3749.2	1966.7	939.7	914.1	954.4	1041.8	1023.0	943.7	879.2	852.3	844.2
60°	3298.9	1535.2	865.7	849.6	896.6	963.9	957.1	888.6	816.0	785.1	799.9
62.5°	2249.0	1125.2	807.9	805.2	829.4	895.3	877.8	816.0	755.5	735.3	725.9
65°	1309.3	853.6	751.5	740.7	760.9	795.8	807.9	743.4	680.2	666.8	662.7
67.5°	773.0	705.8	678.9	661.4	654.7	676.2	685.6	647.9	584.8	565.9	582.1
70°	646.6	627.8	629.1	599.6	583.4	568.6	560.6	527.0	474.5	450.3	443.6
72.5°	557.9	549.8	544.4	517.6	502.8	469.2	434.2	400.6	361.6	341.4	342.8
75°	426.1	423.5	426.1	412.7	387.2	360.3	328.0	285.0	255.4	229.9	235.3
77.5°	254.1	262.1	266.2	260.8	250.0	225.8	205.7	177.4	149.2	129.1	126.4
80°	174.8	181.5	188.2	181.5	170.7	153.2	131.7	110.2	90.1	79.3	76.6
82.5°	133.1	139.8	143.8	137.1	123.7	104.9	90.1	75.3	59.1	48.4	45.7
85°	48.4	55.1	53.8	64.5	69.9	67.2	57.8	44.4	33.6	24.2	22.9
87.5°	13.4	12.1	13.4	13.4	13.4	12.1	10.8	10.8	10.8	6.7	5.4
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)