

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: P647289

Luminaire Tested: **GALN-SA2D-835-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647289
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-835-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 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: 10216.6 lumens
Efficiency: N/A
Efficacy: 81.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

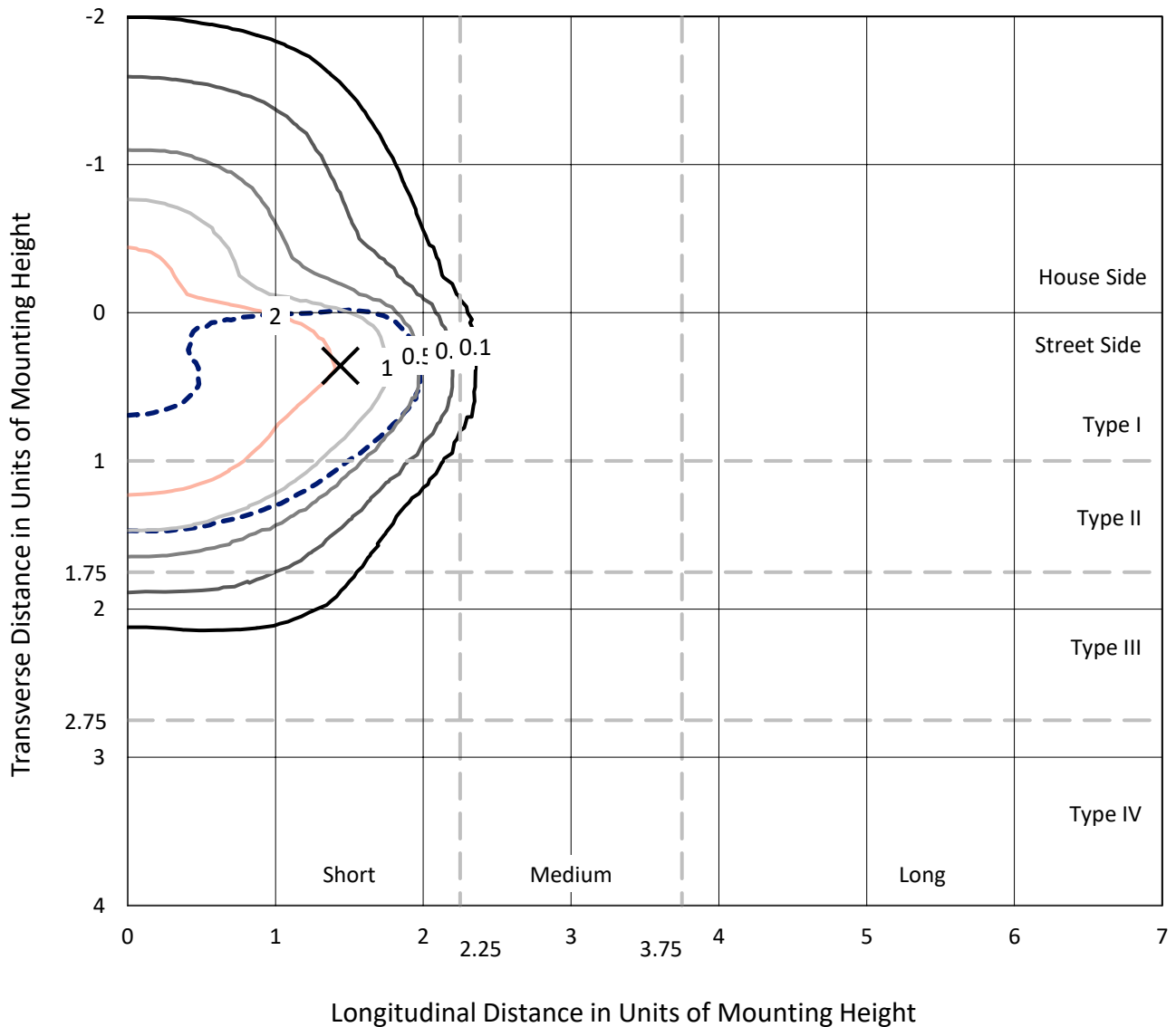
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

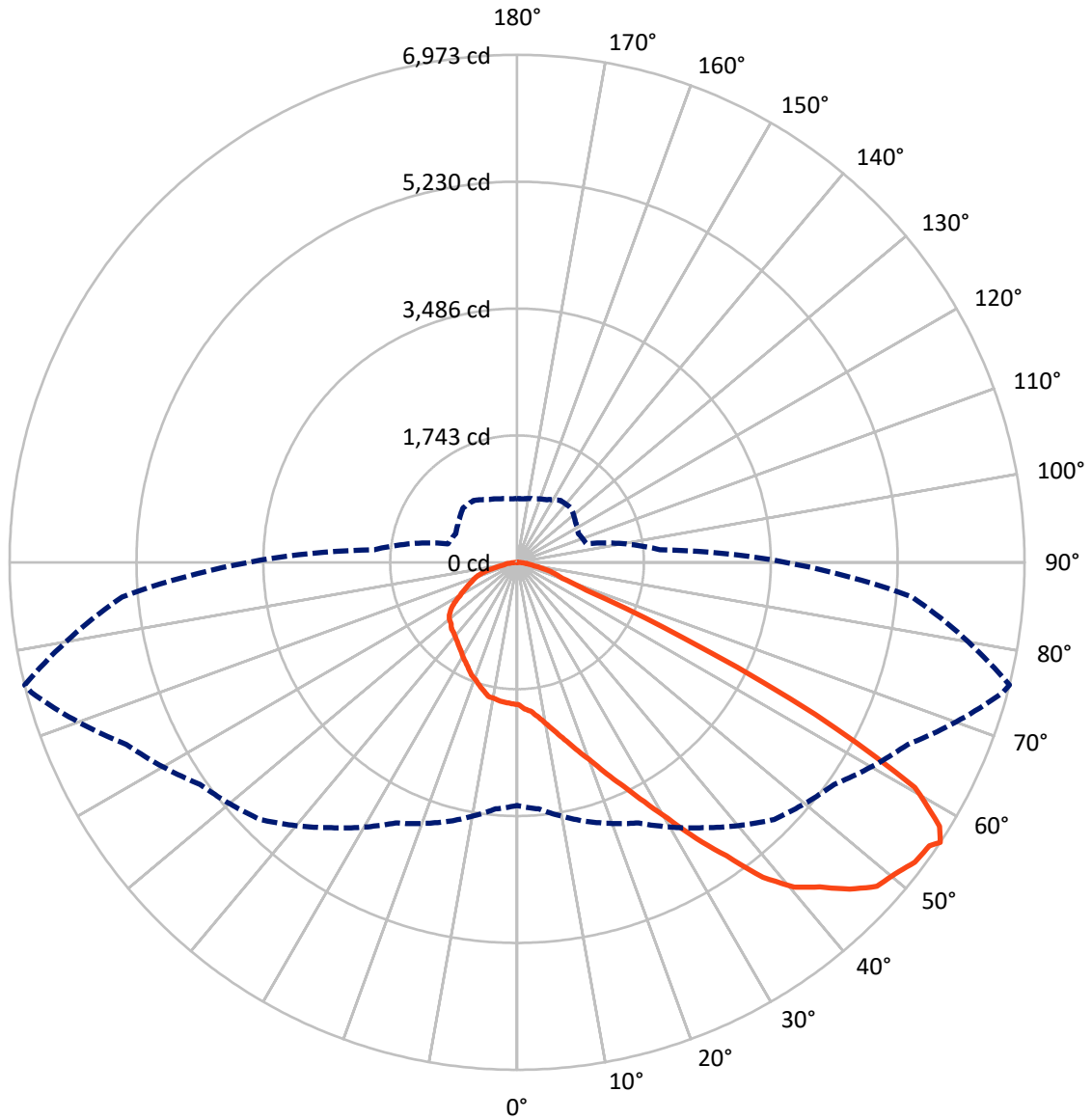
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2746.9	0.0	2746.9
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	7469.7	0.0	7469.7
	% Fixture	73.1	0.0	73.1
Total	Lumens	10216.6	0.0	10216.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.9	1.9
10°-20°	609.0	6.0
20°-30°	1065.0	10.4
30°-40°	1667.5	16.3
40°-50°	2425.7	23.7
50°-60°	2666.0	26.1
60°-70°	1190.0	11.6
70°-80°	343.7	3.4
80°-90°	55.8	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°	10216.6	100.0
0°-180°	10216.6	100.0



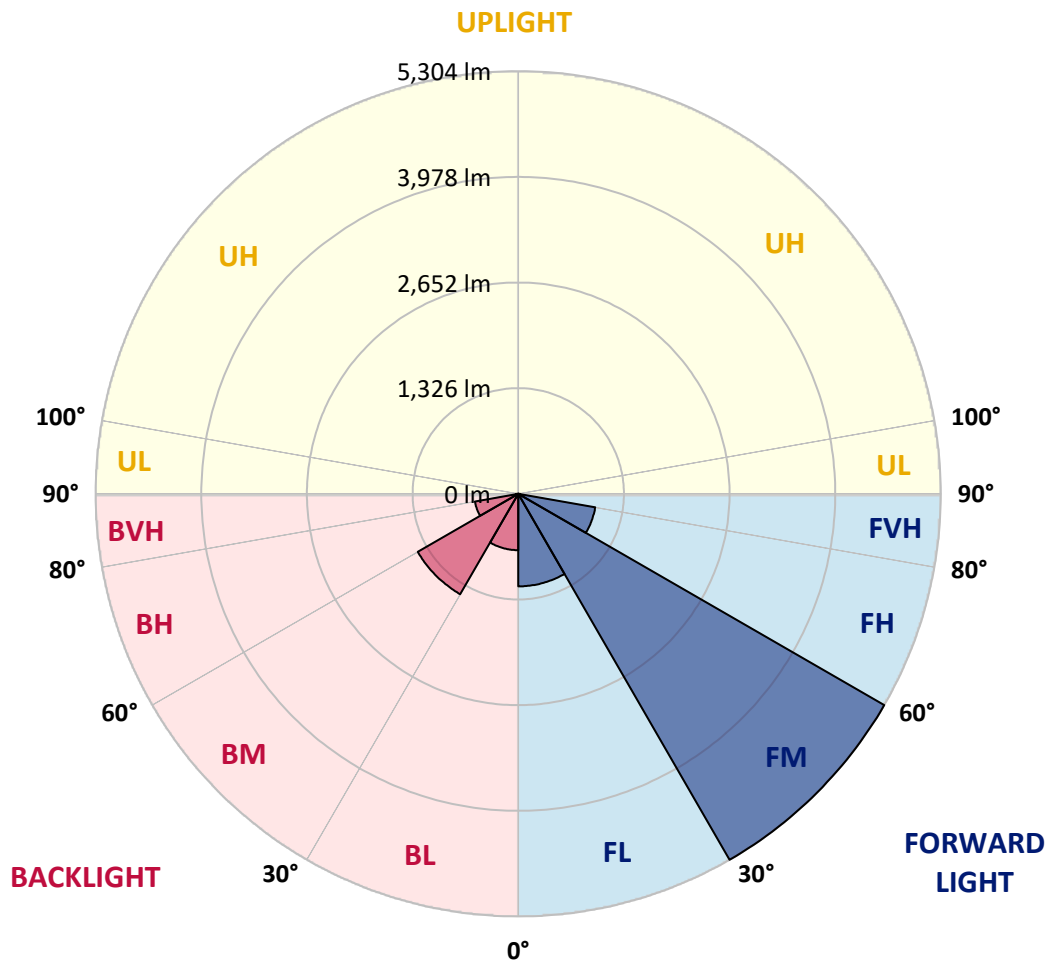
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1161.0	11.4			
FM (30°-60°)	5303.6	51.9			
FH (60°-80°)	981.0	9.6			G1/1800
FVH (80°-90°)	24.0	0.2			G1/100
BL (0°-30°)	706.8	6.9	B2/1000		
BM (30°-60°)	1455.7	14.2	B2/2500		
BH (60°-80°)	552.7	5.4	B2/1000		G2/1000
BVH (80°-90°)	31.8	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°	1954.8	1954.8	1954.8	1954.8	1954.8	1954.8	1954.8	1954.8	1954.8	1954.8	1954.8
2.5°	2153.5	2119.0	2116.4	2107.1	2112.4	2088.6	2063.4	2030.3	1995.9	2017.1	1966.7
5°	2304.4	2258.1	2276.7	2244.9	2248.9	2217.1	2165.4	2127.0	2084.6	2059.4	2023.7
7.5°	2357.5	2361.4	2374.7	2369.4	2342.9	2342.9	2308.4	2240.9	2166.7	2152.2	2092.6
10°	2428.9	2430.3	2415.7	2419.7	2456.7	2439.5	2409.1	2379.9	2284.6	2267.3	2161.4
12.5°	2454.1	2430.3	2454.1	2475.3	2519.0	2542.9	2536.2	2515.0	2413.0	2401.1	2246.2
15°	2458.1	2443.5	2463.4	2511.1	2549.4	2650.1	2700.4	2685.8	2550.8	2552.1	2341.6
17.5°	2439.5	2459.4	2467.4	2508.4	2597.1	2691.2	2836.9	2856.7	2745.5	2728.3	2462.1
20°	2464.7	2450.2	2460.7	2497.8	2615.7	2762.7	2953.4	3084.6	2928.3	2916.4	2586.6
22.5°	2561.3	2541.5	2538.9	2562.7	2647.5	2799.8	3076.6	3312.3	3150.7	3157.4	2741.5
25°	2636.9	2647.5	2638.2	2636.9	2689.8	2855.4	3239.5	3583.8	3452.7	3414.3	2924.3
27.5°	2766.7	2791.9	2773.3	2798.4	2786.5	2938.8	3356.0	3884.5	3778.5	3726.8	3089.8
30°	2946.8	2960.1	2942.8	2942.8	2907.0	3055.4	3462.0	4198.4	4154.7	4084.4	3284.5
32.5°	3183.8	3203.7	3169.3	3149.4	3144.1	3228.9	3652.7	4508.3	4582.4	4522.8	3542.8
35°	3497.7	3485.8	3444.7	3426.3	3354.7	3495.1	3936.1	4864.5	5059.2	4953.3	3855.3
37.5°	3774.5	3756.0	3753.3	3650.0	3667.3	3782.5	4177.1	5134.7	5521.4	5490.9	4185.1
40°	4032.8	4050.0	4077.8	4019.5	3993.1	4120.2	4457.9	5341.3	5880.3	5868.4	4439.4
42.5°	4309.6	4293.7	4342.7	4293.7	4254.0	4434.1	4762.5	5484.4	6195.6	6097.5	4705.6
45°	4710.9	4660.6	4677.8	4681.7	4652.6	4718.8	4888.3	5587.6	6416.7	6406.1	4900.2
47.5°	5046.0	5047.3	5018.2	4995.6	4906.9	4973.1	5028.7	5652.6	6671.0	6653.8	4975.7
50°	5170.5	5153.2	5238.0	5287.0	5292.3	5157.2	5138.7	5688.3	6804.7	6729.3	5051.3
52.5°	4722.8	4738.7	4872.5	5163.8	5332.0	5346.6	5267.2	5762.5	6859.1	6843.2	5112.2
55°	3801.0	3877.8	4097.7	4434.1	4832.8	5271.1	5406.2	5839.3	6888.2	6875.0	5382.3
56°	3341.5	3401.0	3687.1	3950.7	4451.3	4996.9	5318.8	5921.4	6910.7	6972.9	5445.9
57.5°	2689.8	2758.7	2964.0	3263.3	3854.0	4475.2	5077.8	5820.7	6823.3	6847.2	5492.3
60°	1682.0	1688.6	1934.9	2132.3	2548.1	3154.7	3875.2	5064.5	6314.7	6280.3	4933.4
62.5°	1103.2	1104.6	1328.4	1490.0	1679.3	1818.4	2280.6	3358.7	4659.2	4598.3	3512.3
65°	774.8	792.0	965.5	1181.4	1258.2	1185.3	1170.7	1770.8	2602.5	2515.0	1887.3
67.5°	566.8	568.1	721.8	953.5	1064.8	901.9	732.4	864.8	1030.3	1027.8	874.1
70°	374.8	390.7	508.6	712.5	839.7	724.4	598.6	618.5	655.6	655.6	650.3
72.5°	218.5	233.1	311.2	451.6	471.5	453.0	474.1	529.8	553.6	552.2	545.7
75°	124.5	131.2	148.3	188.1	234.4	276.8	348.3	401.3	425.2	439.7	422.5
77.5°	72.8	76.8	87.4	107.3	121.8	149.6	189.4	226.4	258.2	254.3	256.9
80°	38.4	38.4	49.0	63.6	84.8	105.9	125.8	147.0	164.2	168.2	172.2
82.5°	22.6	23.8	31.8	46.4	60.9	75.5	96.7	111.3	127.2	128.5	131.2
85°	11.9	13.2	19.9	30.5	41.0	46.4	47.7	45.0	49.0	46.4	53.0
87.5°	4.0	4.0	6.7	5.3	5.3	6.7	7.9	7.9	10.6	10.6	10.6
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°	1954.8	1954.8	1954.8	1954.8	1954.8	1954.8	1954.8	1954.8	1954.8	1954.8	1954.8
2.5°	1965.4	1965.4	1942.9	1900.5	1893.9	1876.7	1860.8	1859.5	1847.6	1836.9	1831.7
5°	2002.5	1961.4	1928.3	1889.9	1844.9	1823.7	1799.9	1773.3	1762.8	1773.3	1772.0
7.5°	2044.9	2010.4	1911.1	1839.6	1787.9	1766.8	1740.3	1712.4	1715.1	1715.1	1696.5
10°	2085.9	2039.6	1880.6	1789.2	1713.8	1697.9	1683.3	1693.9	1707.2	1709.8	1697.9
12.5°	2154.8	2050.2	1866.0	1739.0	1691.3	1656.8	1666.1	1695.2	1723.1	1715.1	1724.4
15°	2206.4	2059.4	1799.9	1687.3	1627.7	1643.6	1676.7	1696.5	1742.9	1737.6	1746.9
17.5°	2256.8	2064.8	1735.0	1618.4	1593.2	1636.9	1662.2	1719.1	1733.6	1765.4	1777.3
20°	2360.0	2075.3	1668.7	1576.0	1568.1	1618.4	1662.2	1688.6	1720.4	1748.2	1748.2
22.5°	2413.0	2070.0	1625.0	1520.4	1545.6	1577.4	1617.1	1662.2	1662.2	1688.6	1689.9
25°	2479.3	2048.9	1556.1	1493.9	1512.4	1542.9	1587.9	1572.0	1589.3	1589.3	1610.5
27.5°	2554.8	2003.9	1496.5	1446.3	1483.3	1516.4	1523.1	1512.4	1492.6	1490.0	1482.0
30°	2615.7	1948.2	1452.9	1430.4	1460.8	1479.3	1458.2	1435.6	1401.2	1398.6	1380.0
32.5°	2699.2	1879.4	1398.6	1390.6	1425.1	1426.4	1419.7	1385.3	1335.0	1313.8	1292.6
35°	2839.5	1839.6	1357.5	1369.5	1380.0	1376.0	1364.1	1327.0	1276.7	1267.4	1259.5
37.5°	2942.8	1810.5	1315.1	1329.7	1338.9	1344.3	1308.5	1267.4	1268.8	1250.2	1245.0
40°	3059.3	1791.9	1280.7	1287.3	1288.7	1305.9	1262.1	1242.3	1251.5	1239.6	1247.6
42.5°	3209.0	1797.2	1245.0	1239.6	1264.8	1258.2	1237.0	1210.5	1215.8	1180.1	1185.3
45°	3288.4	1833.0	1223.8	1199.9	1227.7	1226.4	1198.6	1173.4	1141.6	1072.8	1075.5
47.5°	3341.5	1842.2	1173.4	1157.5	1186.6	1203.9	1172.1	1113.8	1068.8	1019.8	1007.9
50°	3395.8	1859.5	1149.6	1116.5	1128.4	1169.4	1129.7	1074.1	1030.3	986.7	993.3
52.5°	3443.4	1892.6	1103.2	1054.2	1075.5	1120.5	1099.3	1031.7	984.0	948.3	937.6
55°	3655.4	1966.7	1025.1	961.5	1011.9	1068.8	1056.9	974.8	923.1	904.6	901.9
56°	3688.5	1969.4	984.0	929.7	976.1	1051.6	1037.0	949.6	903.3	874.1	875.4
57.5°	3693.7	1937.6	925.7	900.6	940.3	1026.4	1007.9	929.7	866.2	839.7	831.7
60°	3250.1	1512.4	852.9	837.0	883.4	949.6	943.0	875.4	803.9	773.4	788.0
62.5°	2215.7	1108.5	796.0	793.3	817.1	882.0	864.8	803.9	744.3	724.4	715.2
65°	1290.0	841.0	740.3	729.8	749.6	784.0	796.0	732.4	670.2	656.9	652.9
67.5°	761.5	695.3	668.8	651.6	645.0	666.2	675.4	638.4	576.1	557.6	573.5
70°	637.0	618.5	619.8	590.7	574.8	560.2	552.2	519.1	467.5	443.6	437.1
72.5°	549.6	541.7	536.4	509.9	495.3	462.2	427.8	394.6	356.3	336.4	337.7
75°	419.8	417.2	419.8	406.6	381.4	354.9	323.1	280.8	251.7	226.4	231.8
77.5°	250.3	258.2	262.2	256.9	246.3	222.5	202.6	174.8	147.0	127.2	124.5
80°	172.2	178.8	185.4	178.8	168.2	151.0	129.8	108.6	88.7	78.1	75.5
82.5°	131.2	137.7	141.7	135.1	121.8	103.3	88.7	74.2	58.3	47.7	45.0
85°	47.7	54.3	53.0	63.6	68.9	66.2	56.9	43.7	33.1	23.8	22.6
87.5°	13.2	11.9	13.2	13.2	13.2	11.9	10.6	10.6	10.6	6.7	5.3
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)