

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: P647839

Luminaire Tested: **GALN-SA3A-835-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647839
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-SA3A-835-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 615mA 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: 8966.1 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

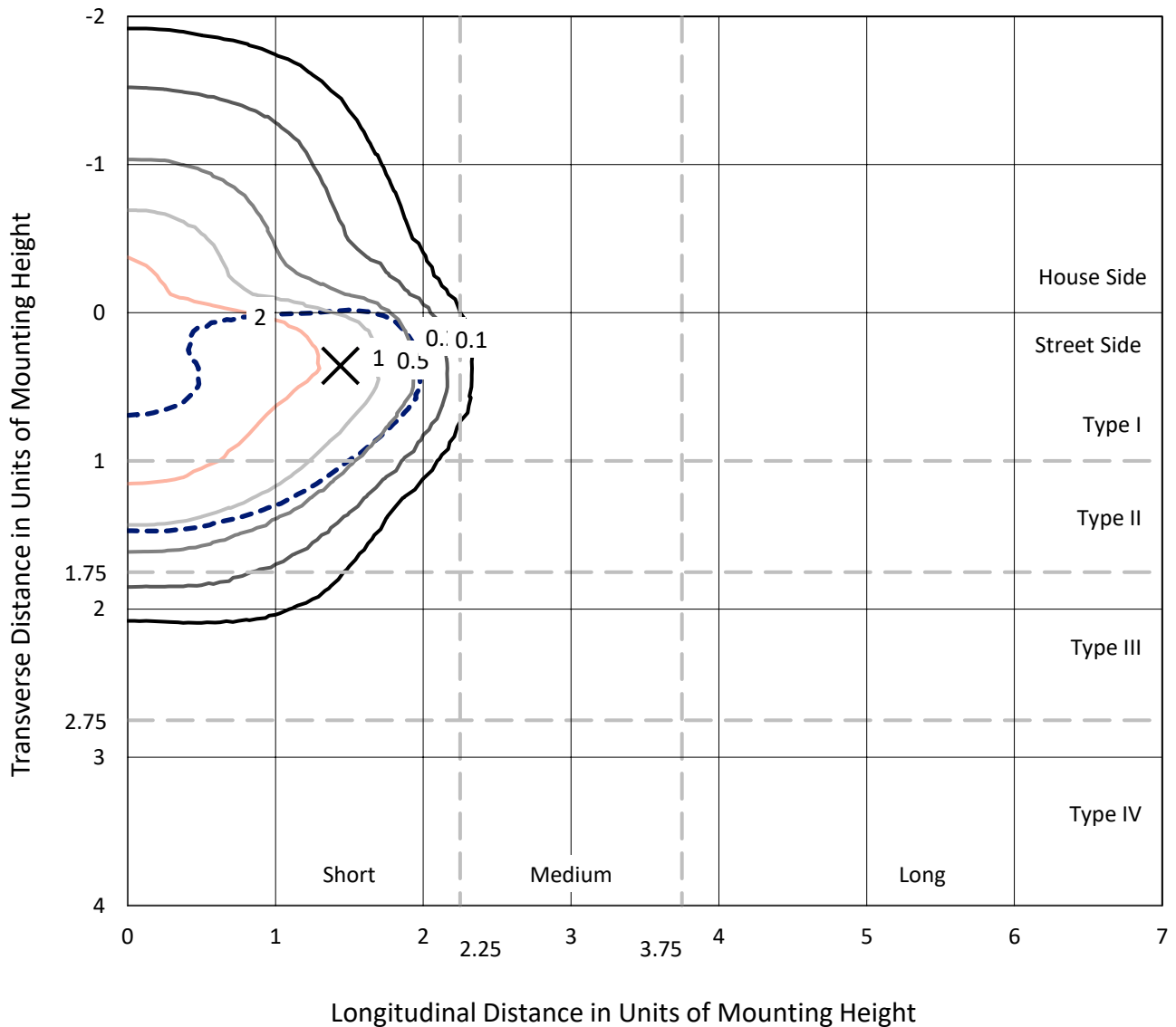
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

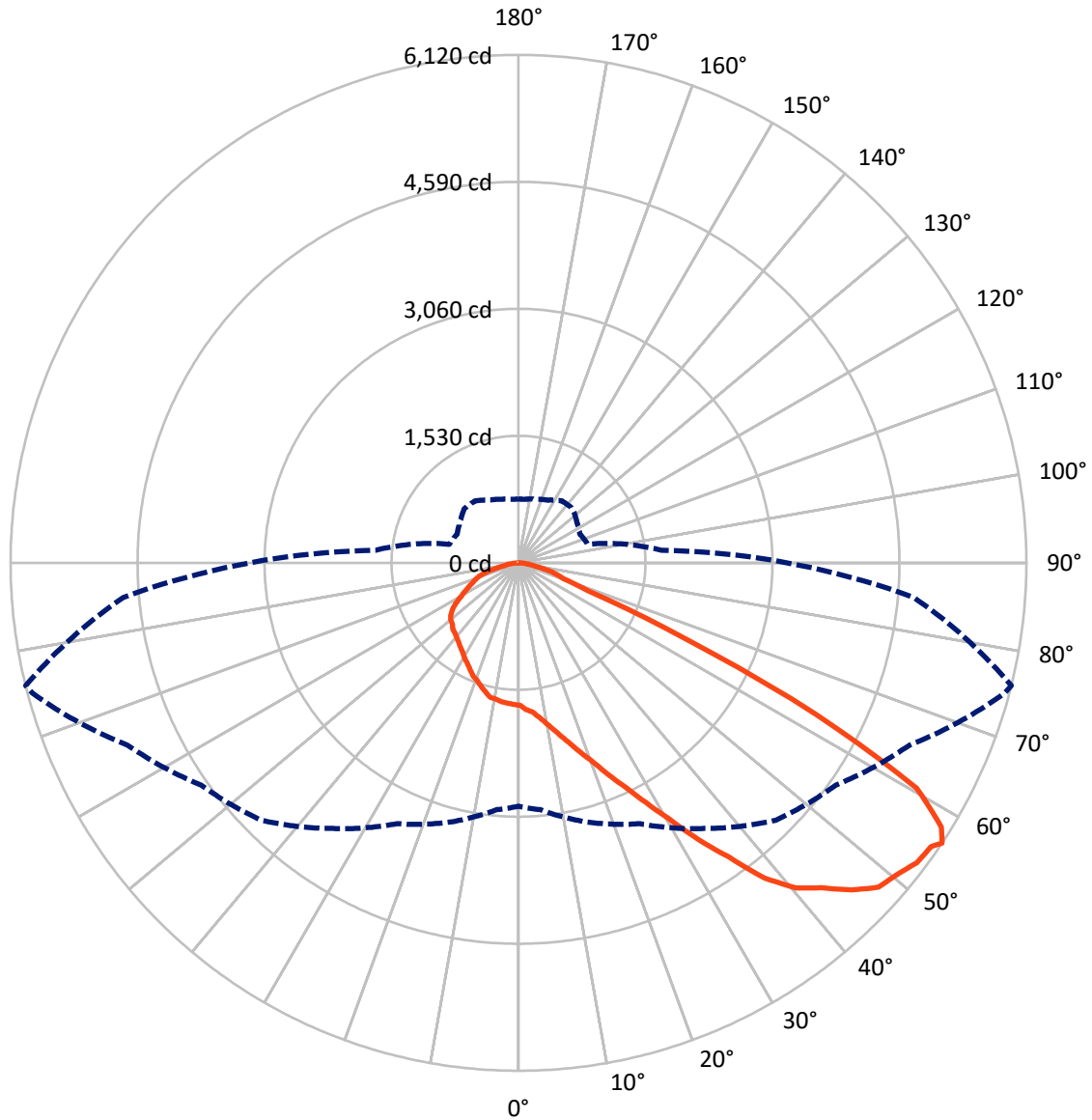
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 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	2410.7	0.0	2410.7
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	6555.4	0.0	6555.4
	% Fixture	73.1	0.0	73.1
Total	Lumens	8966.1	0.0	8966.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.1	1.9
10°-20°	534.4	6.0
20°-30°	934.7	10.4
30°-40°	1463.4	16.3
40°-50°	2128.8	23.7
50°-60°	2339.7	26.1
60°-70°	1044.4	11.6
70°-80°	301.7	3.4
80°-90°	48.9	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°	8966.1	100.0
0°-180°	8966.1	100.0

Coefficient of Utilization



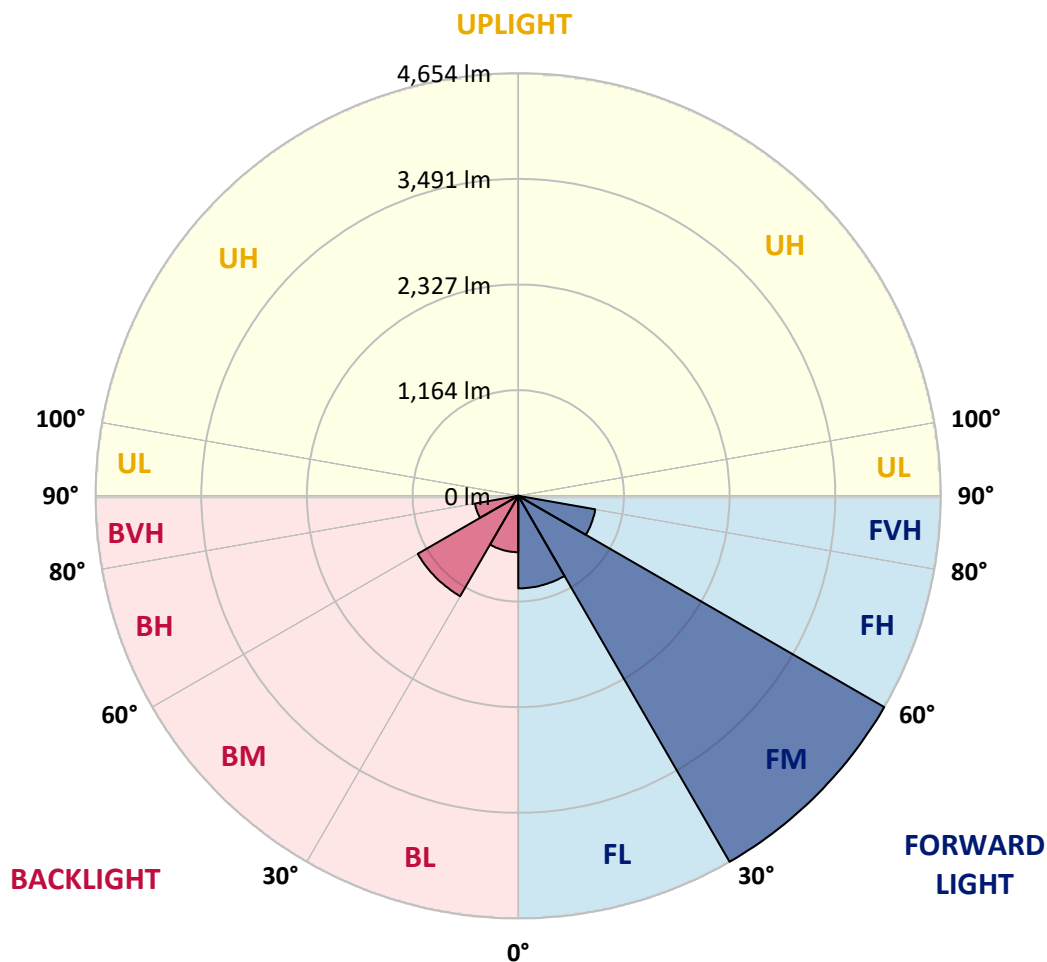
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1018.9	11.4			
FM (30°-60°)	4654.5	51.9			
FH (60°-80°)	861.0	9.6			G1/1800
FVH (80°-90°)	21.1	0.2			G1/100
BL (0°-30°)	620.3	6.9	B2/1000		
BM (30°-60°)	1277.5	14.2	B2/2500		
BH (60°-80°)	485.0	5.4	B1/500		G1/500
BVH (80°-90°)	27.9	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1715.6	1715.6	1715.6	1715.6	1715.6	1715.6	1715.6	1715.6	1715.6	1715.6	1715.6
2.5°	1889.9	1859.7	1857.4	1849.2	1853.8	1832.9	1810.8	1781.8	1751.6	1770.2	1726.0
5°	2022.4	1981.7	1998.0	1970.1	1973.6	1945.7	1900.3	1866.7	1829.5	1807.4	1776.0
7.5°	2068.9	2072.4	2084.0	2079.3	2056.1	2056.1	2025.9	1966.6	1901.5	1888.8	1836.4
10°	2131.6	2132.8	2120.1	2123.5	2156.1	2141.0	2114.3	2088.7	2004.9	1989.8	1896.9
12.5°	2153.7	2132.8	2153.7	2172.4	2210.7	2231.6	2225.8	2207.2	2117.7	2107.3	1971.3
15°	2157.2	2144.5	2161.9	2203.8	2237.4	2325.7	2369.9	2357.1	2238.6	2239.8	2055.0
17.5°	2141.0	2158.4	2165.4	2201.4	2279.2	2361.8	2489.6	2507.1	2409.4	2394.3	2160.7
20°	2163.0	2150.3	2159.5	2192.1	2295.5	2424.6	2592.0	2707.0	2569.8	2559.4	2270.0
22.5°	2247.9	2230.5	2228.1	2249.0	2323.5	2457.1	2700.0	2906.9	2765.1	2771.0	2405.9
25°	2314.2	2323.5	2315.3	2314.2	2360.7	2505.9	2843.0	3145.2	3030.1	2996.4	2566.4
27.5°	2428.1	2450.2	2433.9	2456.0	2445.5	2579.1	2945.3	3409.0	3316.0	3270.7	2711.6
30°	2586.1	2597.8	2582.6	2582.6	2551.2	2681.5	3038.3	3684.5	3646.1	3584.5	2882.5
32.5°	2794.1	2811.6	2781.4	2763.9	2759.3	2833.7	3205.6	3956.5	4021.6	3969.3	3109.1
35°	3069.6	3059.2	3023.2	3006.9	2944.1	3067.3	3454.4	4269.2	4440.0	4347.0	3383.4
37.5°	3312.6	3296.3	3293.9	3203.3	3218.4	3319.5	3665.9	4506.2	4845.6	4818.9	3672.9
40°	3539.2	3554.4	3578.7	3527.6	3504.3	3615.9	3912.3	4687.6	5160.6	5150.2	3896.1
42.5°	3782.1	3768.2	3811.2	3768.2	3733.3	3891.4	4179.7	4813.1	5437.2	5351.3	4129.6
45°	4134.3	4090.2	4105.3	4108.7	4083.2	4141.3	4290.1	4903.8	5631.3	5622.0	4300.5
47.5°	4428.3	4429.5	4404.0	4384.2	4306.3	4364.4	4413.2	4960.7	5854.5	5839.4	4366.8
50°	4537.6	4522.5	4596.9	4639.9	4644.5	4526.0	4509.7	4992.1	5971.9	5905.6	4433.0
52.5°	4144.7	4158.7	4276.1	4531.8	4679.4	4692.2	4622.4	5057.2	6019.5	6005.6	4486.5
55°	3335.8	3403.2	3596.2	3891.4	4241.2	4626.0	4744.5	5124.6	6045.2	6033.5	4723.6
56°	2932.5	2984.8	3235.8	3467.1	3906.5	4385.3	4667.8	5196.6	6064.9	6119.5	4779.4
57.5°	2360.7	2421.0	2601.2	2863.9	3382.3	3927.4	4456.3	5108.3	5988.1	6009.1	4820.1
60°	1476.1	1481.9	1698.1	1871.3	2236.2	2768.6	3400.9	4444.6	5541.8	5511.6	4329.6
62.5°	968.2	969.4	1165.8	1307.6	1473.8	1595.8	2001.5	2947.6	4089.0	4035.5	3082.4
65°	680.0	695.1	847.3	1036.8	1104.2	1040.3	1027.5	1554.0	2283.9	2207.2	1656.3
67.5°	497.4	498.6	633.4	836.9	934.5	791.5	642.8	759.0	904.3	901.9	767.1
70°	328.9	342.9	446.3	625.3	736.9	635.8	525.4	542.8	575.3	575.3	570.7
72.5°	191.8	204.6	273.1	396.4	413.8	397.5	416.1	464.9	485.9	484.7	478.9
75°	109.2	115.1	130.2	165.1	205.7	242.9	305.7	352.2	373.1	385.9	370.8
77.5°	63.9	67.4	76.7	94.1	107.0	131.3	166.2	198.7	226.7	223.2	225.5
80°	33.7	33.7	43.0	55.8	74.4	93.0	110.4	129.0	144.2	147.6	151.1
82.5°	19.7	20.9	27.9	40.7	53.5	66.2	84.9	97.6	111.6	112.8	115.1
85°	10.5	11.6	17.5	26.7	36.0	40.7	41.8	39.5	43.0	40.7	46.5
87.5°	3.5	3.5	5.8	4.6	4.6	5.8	7.0	7.0	9.3	9.3	9.3
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°	1715.6	1715.6	1715.6	1715.6	1715.6	1715.6	1715.6	1715.6	1715.6	1715.6	1715.6
2.5°	1724.9	1724.9	1705.1	1667.9	1662.1	1647.0	1633.0	1631.9	1621.4	1612.1	1607.5
5°	1757.4	1721.3	1692.3	1658.6	1619.1	1600.5	1579.5	1556.3	1547.1	1556.3	1555.2
7.5°	1794.6	1764.3	1677.2	1614.5	1569.1	1550.5	1527.2	1502.9	1505.2	1505.2	1488.9
10°	1830.7	1789.9	1650.5	1570.2	1504.0	1490.0	1477.3	1486.6	1498.2	1500.5	1490.0
12.5°	1891.0	1799.3	1637.6	1526.1	1484.3	1454.0	1462.2	1487.8	1512.1	1505.2	1513.3
15°	1936.4	1807.4	1579.5	1480.7	1428.5	1442.4	1471.5	1488.9	1529.6	1525.0	1533.0
17.5°	1980.5	1812.0	1522.6	1420.4	1398.3	1436.6	1458.7	1508.7	1521.4	1549.3	1559.8
20°	2071.2	1821.3	1464.5	1383.2	1376.2	1420.4	1458.7	1481.9	1509.9	1534.2	1534.2
22.5°	2117.7	1816.6	1426.2	1334.3	1356.4	1384.3	1419.2	1458.7	1458.7	1481.9	1483.1
25°	2175.8	1798.1	1365.7	1311.1	1327.3	1354.0	1393.6	1379.6	1394.8	1394.8	1413.4
27.5°	2242.0	1758.5	1313.4	1269.2	1301.7	1330.9	1336.7	1327.3	1309.9	1307.6	1300.6
30°	2295.5	1709.8	1275.0	1255.3	1282.0	1298.3	1279.7	1259.9	1229.7	1227.4	1211.1
32.5°	2368.7	1649.3	1227.4	1220.4	1250.6	1251.8	1246.0	1215.8	1171.6	1153.0	1134.4
35°	2492.0	1614.5	1191.3	1201.8	1211.1	1207.6	1197.2	1164.6	1120.5	1112.3	1105.4
37.5°	2582.6	1588.9	1154.1	1167.0	1175.0	1179.7	1148.3	1112.3	1113.5	1097.2	1092.6
40°	2684.9	1572.6	1123.9	1129.8	1130.9	1146.0	1107.7	1090.2	1098.4	1087.9	1094.9
42.5°	2816.2	1577.3	1092.6	1087.9	1110.0	1104.2	1085.6	1062.4	1067.0	1035.6	1040.3
45°	2886.0	1608.6	1074.0	1053.1	1077.5	1076.3	1051.9	1029.8	1001.9	941.5	943.7
47.5°	2932.5	1616.7	1029.8	1015.9	1041.4	1056.5	1028.6	977.5	938.0	895.0	884.5
50°	2980.1	1631.9	1008.9	979.8	990.3	1026.3	991.4	942.7	904.3	865.9	871.7
52.5°	3022.0	1660.9	968.2	925.2	943.7	983.3	964.7	905.5	863.6	832.2	822.9
55°	3208.0	1726.0	899.6	843.8	888.0	938.0	927.5	855.4	810.1	793.9	791.5
56°	3237.0	1728.3	863.6	816.0	856.6	922.8	910.1	833.3	792.7	767.1	768.3
57.5°	3241.6	1700.4	812.4	790.4	825.2	900.8	884.5	816.0	760.1	736.9	729.9
60°	2852.3	1327.3	748.5	734.6	775.2	833.3	827.6	768.3	705.5	678.8	691.5
62.5°	1944.5	972.9	698.5	696.2	717.1	774.1	759.0	705.5	653.2	635.8	627.7
65°	1132.1	738.1	649.7	640.4	657.9	688.1	698.5	642.8	588.1	576.5	573.0
67.5°	668.3	610.2	586.9	571.8	566.0	584.7	592.8	560.2	505.6	489.3	503.3
70°	559.1	542.8	544.0	518.4	504.4	491.6	484.7	455.6	410.3	389.4	383.6
72.5°	482.3	475.4	470.7	447.5	434.7	405.7	375.4	346.4	312.7	295.2	296.4
75°	368.5	366.1	368.5	356.8	334.7	311.5	283.6	246.4	220.8	198.7	203.4
77.5°	219.7	226.7	230.1	225.5	216.2	195.3	177.8	153.4	129.0	111.6	109.2
80°	151.1	156.9	162.7	156.9	147.6	132.5	113.9	95.3	77.9	68.6	66.2
82.5°	115.1	120.9	124.3	118.5	107.0	90.7	77.9	65.1	51.1	41.8	39.5
85°	41.8	47.7	46.5	55.8	60.4	58.1	50.0	38.4	29.0	20.9	19.7
87.5°	11.6	10.5	11.6	11.6	11.6	10.5	9.3	9.3	9.3	5.8	4.6
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)