

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: P646854

Luminaire Tested: **GALN-SA3C-835-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646854
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-835-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16747.6 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

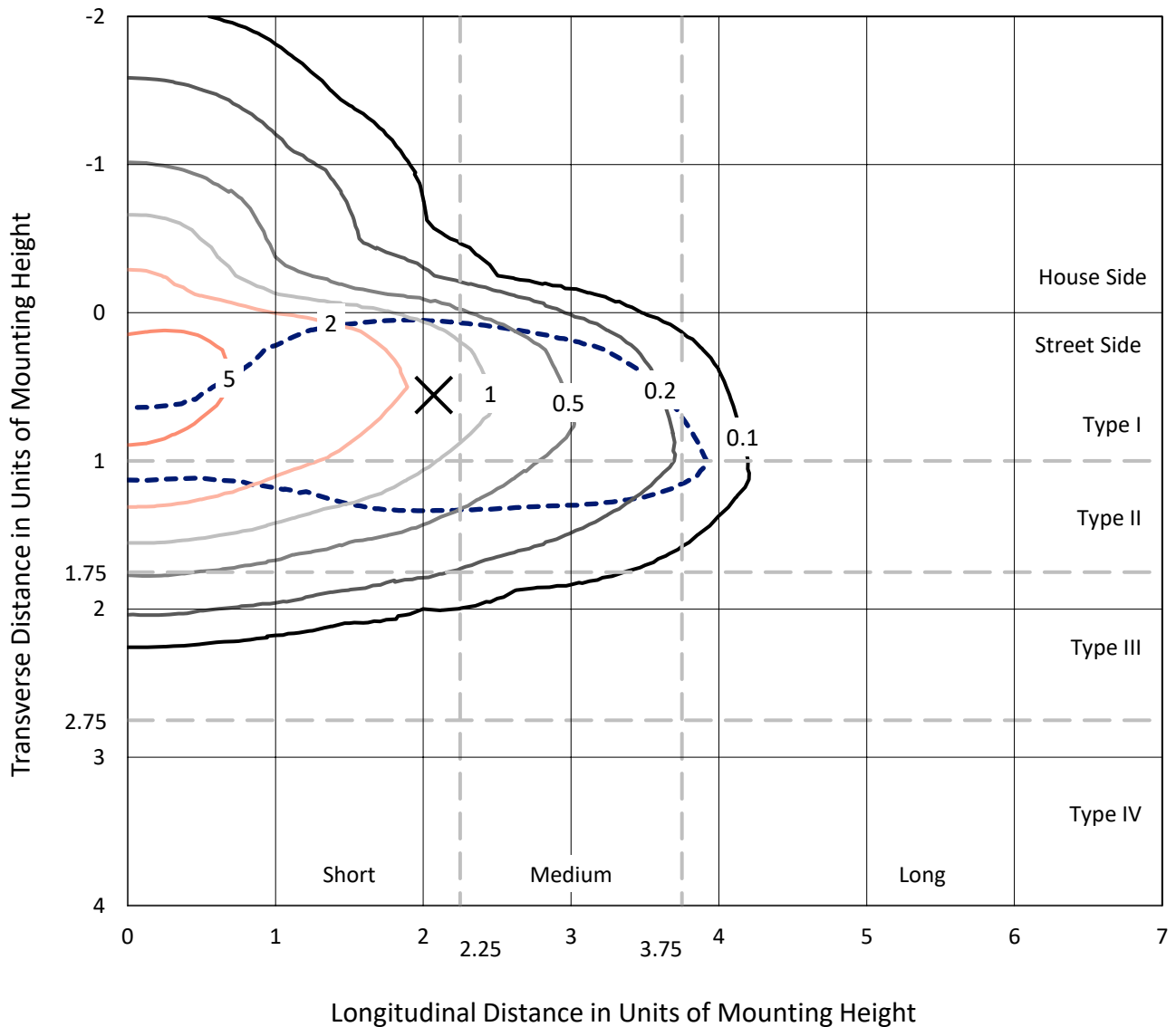
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

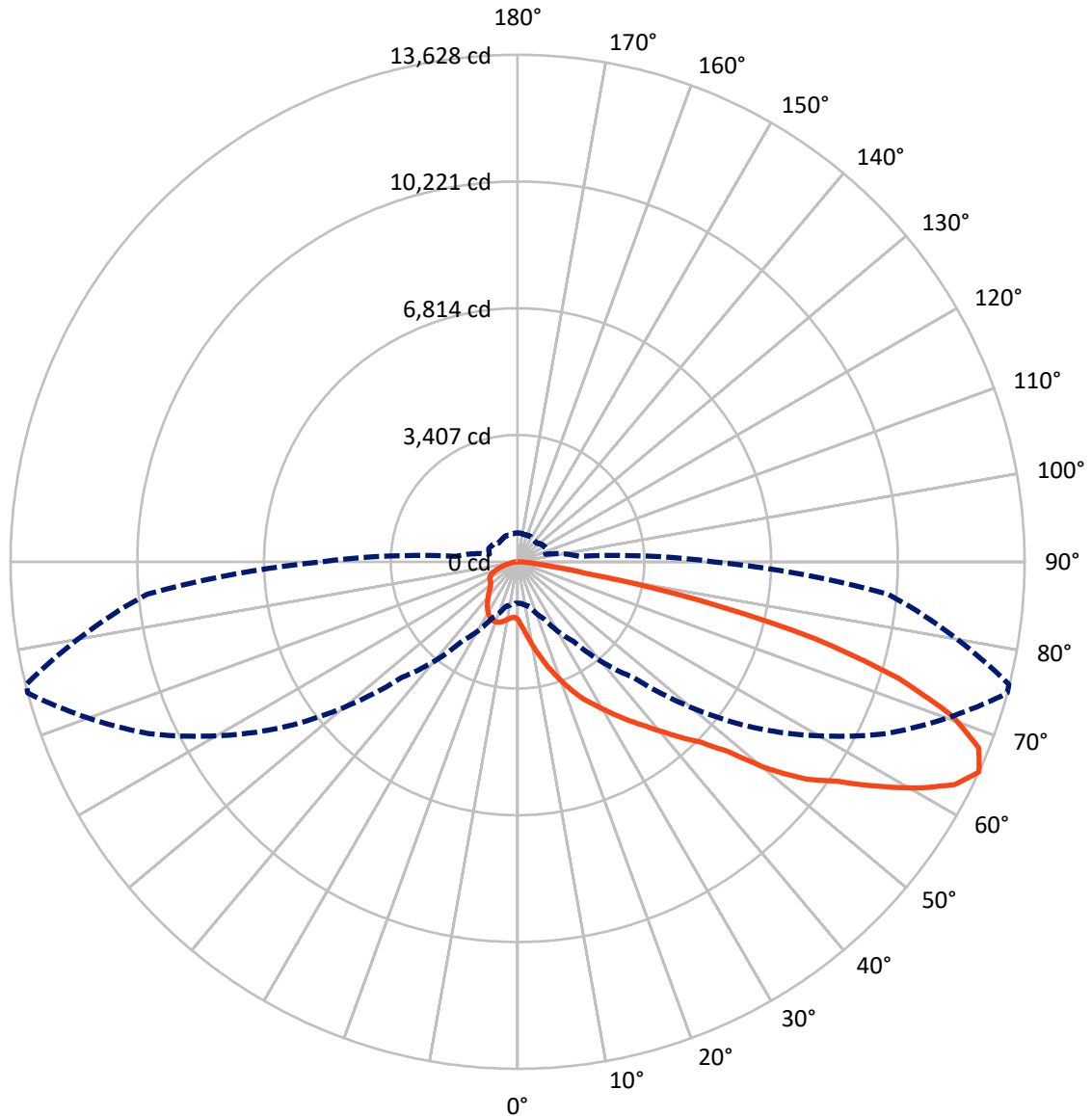
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2815.5	0.0	2815.5
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	13932.1	0.0	13932.1
	% Fixture	83.2	0.0	83.2
Total	Lumens	16747.6	0.0	16747.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.1	1.1
10°-20°	740.5	4.4
20°-30°	1430.4	8.5
30°-40°	2323.4	13.9
40°-50°	3196.1	19.1
50°-60°	3773.5	22.5
60°-70°	3306.2	19.7
70°-80°	1578.4	9.4
80°-90°	210.0	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°	16747.6	100.0
0°-180°	16747.6	100.0

Coefficient of Utilization

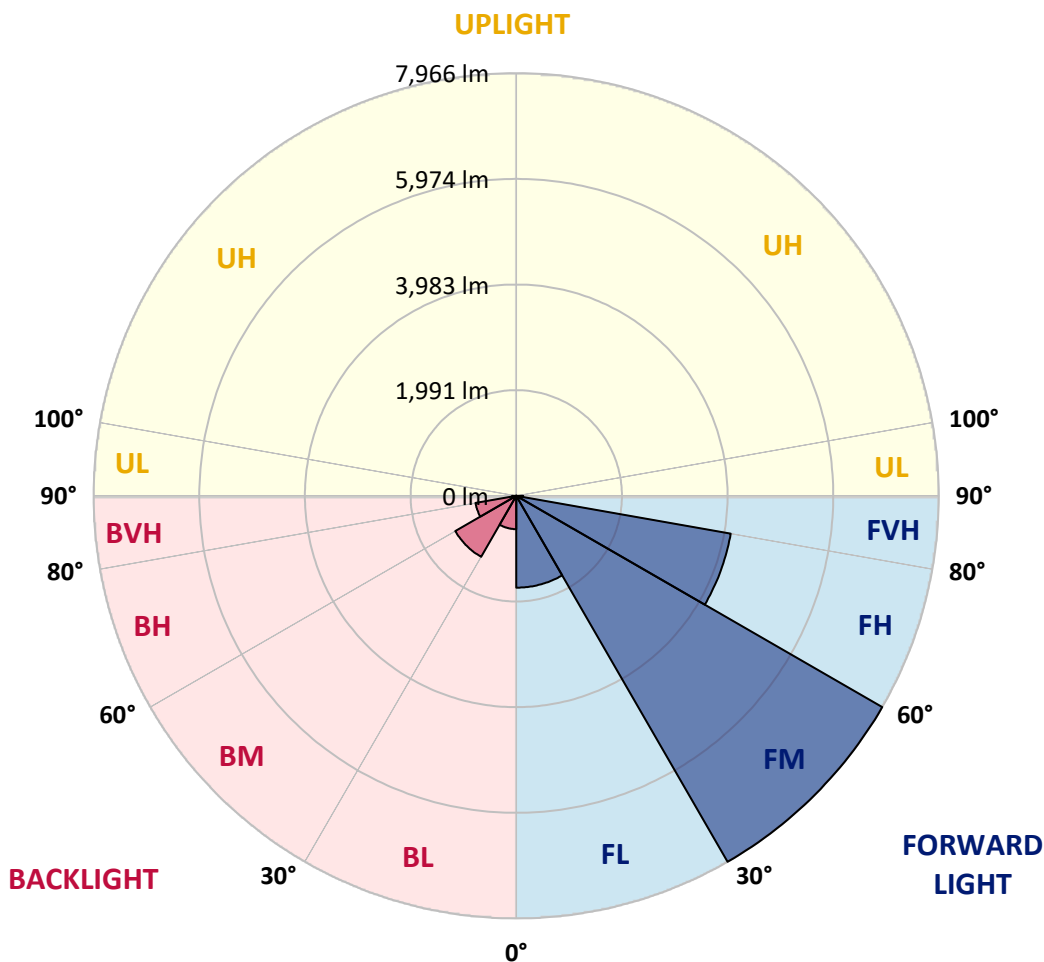


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1731.4	10.3			
FM (30°-60°)	7965.5	47.6			
FH (60°-80°)	4103.9	24.5			G2/5000
FVH (80°-90°)	131.3	0.8			G2/225
BL (0°-30°)	628.5	3.8	B2/1000		
BM (30°-60°)	1327.5	7.9	B2/2500		
BH (60°-80°)	780.7	4.7	B2/1000		G2/1000
BVH (80°-90°)	78.8	0.5			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°	1556.1	1556.1	1556.1	1556.1	1556.1	1556.1	1556.1	1556.1	1556.1	1556.1	1556.1
2.5°	2067.5	2053.9	2039.3	1999.4	1956.6	1908.5	1839.5	1773.2	1685.0	1682.4	1616.9
5°	2640.7	2631.6	2567.1	2529.9	2430.8	2299.1	2187.4	2013.9	1853.1	1834.0	1706.9
7.5°	3167.5	3132.1	3107.6	3040.4	2942.3	2773.3	2557.1	2322.8	2053.9	2028.4	1817.7
10°	3564.5	3560.8	3548.2	3490.0	3416.5	3248.4	3008.6	2672.5	2308.2	2258.3	1952.1
12.5°	3861.5	3864.3	3862.5	3861.5	3808.8	3666.2	3406.4	3052.1	2565.3	2529.9	2107.4
15°	4056.9	4084.1	4095.0	4140.4	4145.0	4049.6	3826.1	3419.1	2855.1	2802.4	2274.6
17.5°	4185.8	4199.5	4250.4	4327.6	4390.2	4373.0	4174.0	3758.9	3151.2	3063.1	2448.1
20°	4309.4	4333.0	4372.0	4477.4	4588.2	4639.1	4499.2	4106.8	3444.6	3388.3	2639.7
22.5°	4566.5	4600.0	4613.7	4667.3	4761.7	4851.7	4788.1	4440.2	3766.2	3689.9	2843.2
25°	5001.6	5037.0	4998.8	4986.1	5017.0	5061.5	5047.9	4754.5	4069.6	3960.6	3035.8
27.5°	5568.4	5572.9	5498.5	5427.6	5351.3	5328.5	5286.8	5033.4	4333.0	4242.1	3229.3
30°	6177.0	6155.2	6031.7	5903.6	5774.6	5647.4	5527.5	5302.2	4626.4	4521.9	3419.1
32.5°	6742.0	6730.2	6593.0	6394.1	6176.1	6056.2	5813.7	5573.9	4940.7	4839.9	3614.5
35°	7165.3	7182.6	7031.8	6814.7	6576.7	6470.4	6164.3	5859.1	5265.9	5156.0	3827.0
37.5°	7466.0	7456.9	7323.4	7135.3	6926.4	6833.8	6574.0	6170.7	5615.6	5510.3	4059.5
40°	7573.2	7567.8	7468.7	7331.5	7199.0	7166.3	7002.8	6506.7	6016.3	5892.7	4339.4
42.5°	7505.1	7516.9	7451.5	7414.2	7389.7	7413.3	7428.8	6947.3	6453.2	6339.6	4642.7
45°	7296.2	7289.8	7280.7	7341.6	7479.6	7635.0	7850.3	7363.3	6928.2	6837.4	5049.7
47.5°	6922.8	6968.2	6990.9	7159.0	7460.6	7828.4	8335.3	7921.1	7617.7	7538.6	5670.2
50°	6400.5	6436.8	6571.2	6870.1	7319.8	7901.1	8809.5	8833.1	8767.7	8619.7	6344.2
52.5°	5584.7	5641.0	5918.1	6465.9	7030.9	7871.2	9096.6	9615.2	9701.5	9590.7	7008.2
55°	4671.8	4750.9	5043.4	5761.9	6633.0	7707.6	9294.6	10068.5	10412.8	10310.2	7647.7
57.5°	3778.0	3861.5	4162.2	4858.0	5939.1	7346.1	9424.5	10573.6	11381.1	11247.6	8443.4
60°	2831.4	2918.6	3176.6	3893.3	4950.7	6639.4	9336.3	11011.4	12348.6	12291.4	9240.1
62.5°	1826.7	1923.0	2147.5	2740.6	3805.2	5673.8	8864.9	11253.0	13186.1	13117.1	9821.5
65°	1112.8	1123.7	1247.2	1701.4	2604.3	4392.9	7786.7	10932.4	13627.6	13606.7	9998.6
67.5°	719.4	736.7	793.0	1019.2	1561.5	3051.3	6226.1	9874.1	13369.6	13362.4	9632.5
70°	607.7	613.2	638.6	687.6	907.5	1850.4	4372.0	8187.3	12389.5	12389.5	8752.3
72.5°	543.2	550.4	559.5	575.0	647.7	1048.3	2608.9	6373.2	10697.1	10768.0	7449.7
75°	493.3	491.4	496.9	499.6	552.3	684.9	1349.0	4713.6	8275.4	8133.6	5394.9
77.5°	422.4	425.1	422.4	434.2	487.8	521.4	684.9	3163.0	5015.2	4831.7	2707.9
80°	347.0	351.6	356.1	363.4	416.9	396.0	411.5	1441.6	1854.9	1815.9	836.6
82.5°	260.7	267.1	274.4	291.6	327.9	261.6	259.8	615.9	669.5	613.2	308.0
85°	105.4	124.4	188.0	205.3	206.2	143.5	159.9	257.1	273.4	267.1	120.8
87.5°	24.5	29.0	60.8	91.8	84.5	53.6	59.0	83.5	95.4	88.1	40.9
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°	1556.1	1556.1	1556.1	1556.1	1556.1	1556.1	1556.1	1556.1	1556.1	1556.1	1556.1
2.5°	1587.0	1555.1	1500.6	1458.9	1428.9	1402.5	1386.2	1376.2	1372.6	1371.7	1372.6
5°	1640.5	1584.2	1498.0	1443.5	1413.5	1396.2	1386.2	1385.3	1386.2	1387.1	1384.3
7.5°	1714.1	1633.3	1520.7	1469.8	1447.1	1434.4	1429.8	1428.0	1428.9	1428.0	1428.0
10°	1812.3	1701.4	1565.1	1512.4	1493.4	1478.9	1471.6	1467.0	1463.4	1459.7	1457.9
12.5°	1920.3	1776.8	1613.3	1562.4	1535.1	1512.4	1496.1	1484.3	1476.1	1468.0	1466.2
15°	2041.1	1856.7	1666.9	1596.1	1557.0	1523.3	1495.2	1476.1	1461.6	1449.8	1448.9
17.5°	2156.5	1932.1	1703.2	1611.5	1554.3	1507.0	1469.8	1443.5	1425.2	1409.8	1408.0
20°	2280.0	2003.9	1719.5	1601.5	1527.0	1469.8	1420.7	1388.9	1368.1	1350.8	1348.0
22.5°	2404.5	2064.8	1717.7	1569.7	1479.8	1412.5	1360.8	1327.2	1302.6	1285.4	1279.0
25°	2523.5	2113.8	1695.0	1518.8	1414.3	1344.4	1291.7	1260.9	1239.0	1218.1	1218.1
27.5°	2630.6	2142.9	1652.4	1457.1	1347.2	1273.5	1231.7	1203.6	1183.7	1170.0	1161.8
30°	2736.0	2156.5	1594.2	1378.9	1276.3	1213.6	1180.0	1163.6	1145.5	1130.0	1128.2
32.5°	2830.5	2153.8	1521.5	1302.6	1209.0	1164.6	1150.9	1138.2	1119.1	1097.3	1091.9
35°	2922.2	2135.6	1435.2	1219.1	1152.7	1135.5	1139.1	1120.9	1086.4	1059.2	1054.6
37.5°	3022.2	2102.9	1340.8	1150.9	1105.5	1121.9	1131.0	1091.0	1034.7	992.0	982.0
40°	3137.6	2065.6	1242.7	1082.8	1068.2	1109.1	1109.1	1035.6	958.3	932.0	924.7
42.5°	3272.9	2034.8	1161.0	1025.6	1037.4	1078.3	1073.7	962.0	930.2	916.6	912.9
45°	3487.3	2023.9	1076.5	975.6	1011.9	1041.9	1004.7	936.5	918.4	907.5	903.8
47.5°	3826.1	2036.6	1001.9	938.3	982.9	1005.6	927.5	919.3	906.6	891.1	889.3
50°	4140.4	2024.8	949.2	917.4	957.5	962.0	895.7	898.4	891.1	873.8	870.2
52.5°	4397.5	1987.6	915.6	906.6	935.6	885.7	865.7	875.7	873.0	851.1	847.5
55°	4680.0	1964.9	899.3	906.6	921.1	819.3	837.5	852.1	848.5	833.0	832.1
57.5°	5022.5	1969.4	887.5	909.3	906.6	785.7	809.4	826.6	825.8	821.2	821.2
60°	5373.1	1971.2	869.3	908.4	889.3	759.4	780.3	804.8	806.6	809.4	809.4
62.5°	5489.4	1892.2	833.9	892.1	851.1	734.0	753.1	786.7	784.9	792.1	793.0
65°	5272.3	1673.3	781.2	854.8	802.1	715.8	732.2	763.0	753.1	772.1	775.8
67.5°	4799.0	1384.3	699.5	787.5	747.6	696.7	718.6	730.3	712.1	749.4	750.3
70°	4147.7	1081.0	595.9	692.2	685.8	676.7	707.6	689.4	664.1	709.5	700.4
72.5°	3468.2	825.8	476.0	566.0	603.1	646.8	688.6	636.8	601.3	615.0	598.6
75°	2605.3	610.4	382.4	443.3	502.4	604.1	671.3	573.2	518.7	506.0	502.4
77.5°	1328.0	398.8	286.1	331.5	377.0	545.9	647.7	498.7	429.6	409.7	400.6
80°	474.2	248.0	201.6	228.9	254.3	469.6	566.0	412.4	333.4	329.7	333.4
82.5°	219.9	159.9	135.4	149.9	150.8	313.4	431.5	308.0	253.5	385.2	325.2
85°	94.5	79.9	76.3	74.5	69.1	139.9	242.6	165.3	258.0	115.3	106.3
87.5°	28.2	31.8	28.2	20.9	15.4	15.4	24.5	9.1	6.3	4.5	4.5
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)