

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: P458684

Luminaire Tested: **GALN-SA2B-735-U-T4FT**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458684  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA2B-735-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10636 lumens  
Efficiency: N/A  
Efficacy: 129.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

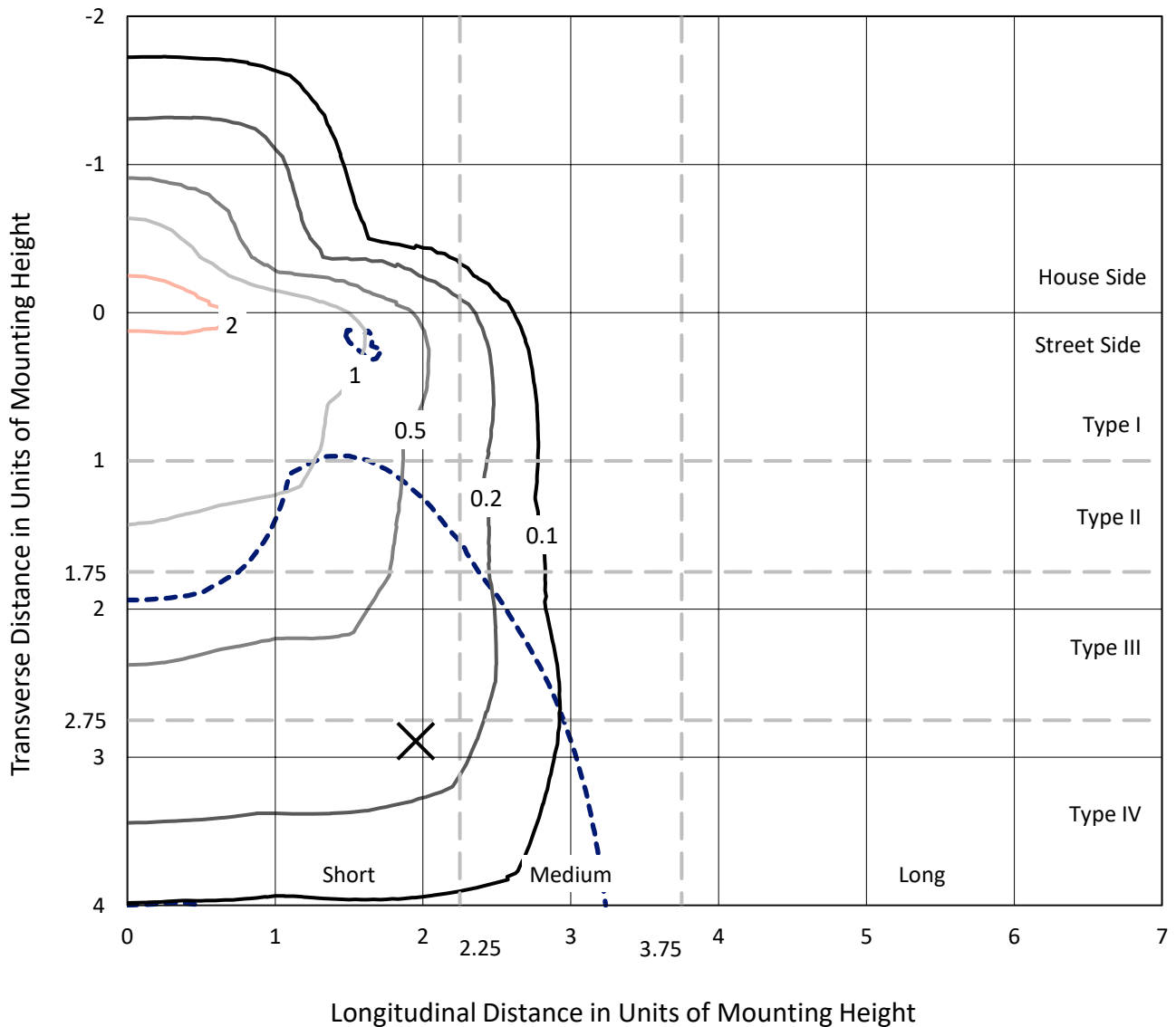
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

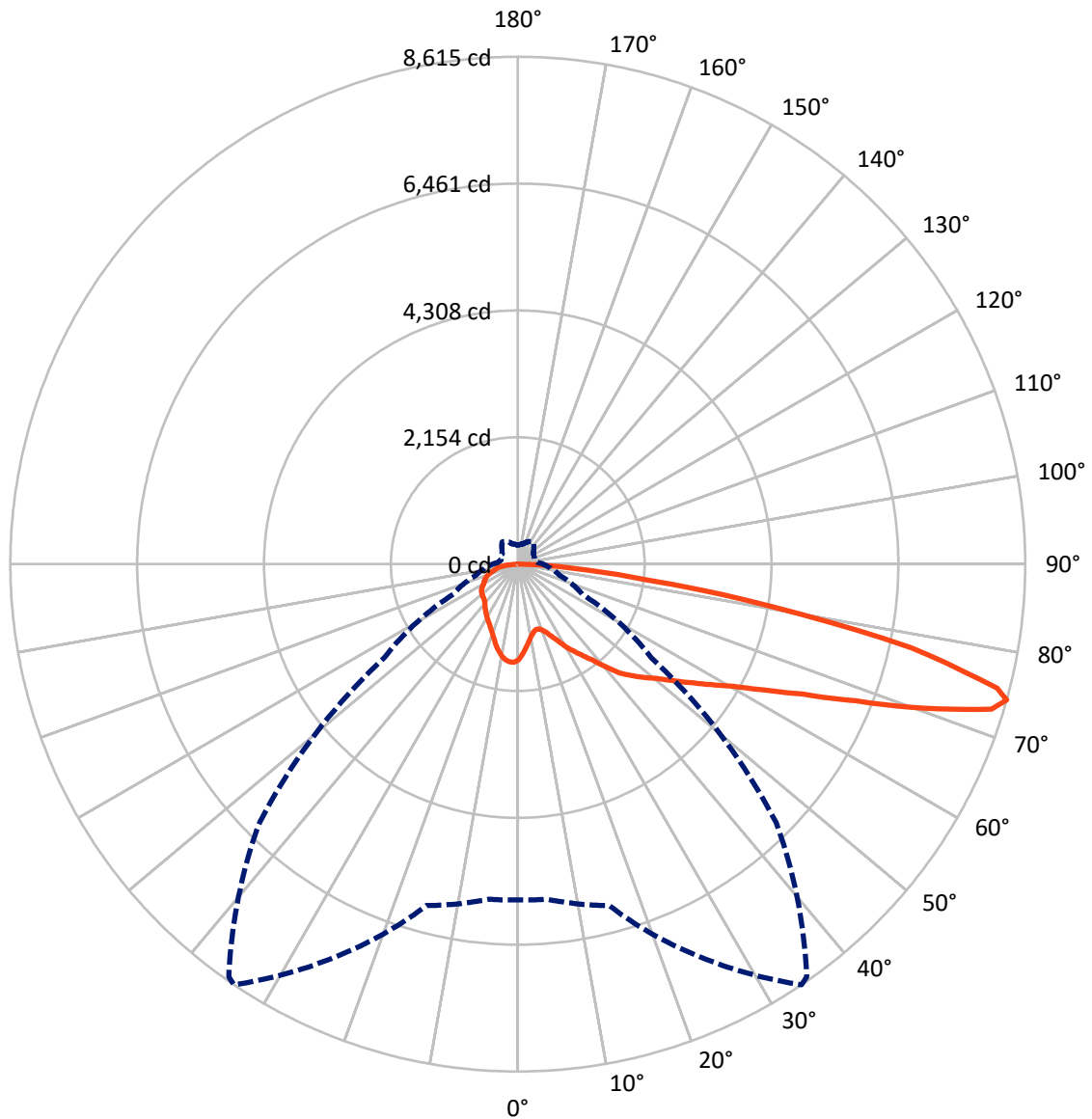
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral    - - - Horizontal Cone Through 74-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2263.4	0.0	2263.4
	% Fixture	21.3	0.0	21.3
<b>Street Side</b>	Lumens	8372.6	0.0	8372.6
	% Fixture	78.7	0.0	78.7
<b>Total</b>	Lumens	10636.0	0.0	10636.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	147.7	1.4
10°-20°	404.3	3.8
20°-30°	666.6	6.3
30°-40°	998.4	9.4
40°-50°	1451.5	13.6
50°-60°	2027.3	19.1
60°-70°	2538.1	23.9
70°-80°	2098.8	19.7
80°-90°	303.3	2.9
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°	10636.0	100.0
0°-180°	10636.0	100.0

**Coefficient of Utilization**



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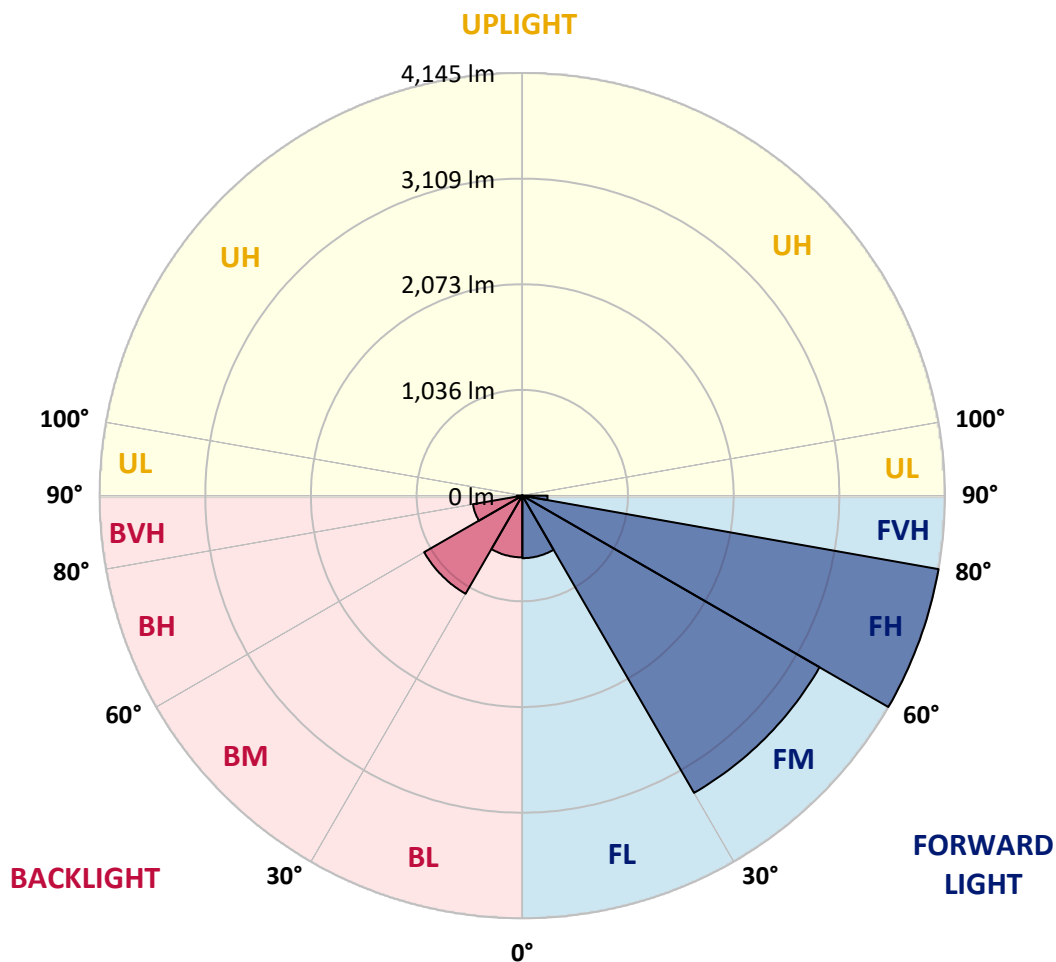
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	613.1	5.8			
FM (30°-60°)	3365.7	31.6			
FH (60°-80°)	4145.3	39.0			G2/5000
FVH (80°-90°)	248.4	2.3			G3/500
BL (0°-30°)	605.4	5.7	B2/1000		
BM (30°-60°)	1111.6	10.5	B2/2500		
BH (60°-80°)	491.6	4.6	B1/500		G1/500
BVH (80°-90°)	54.8	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-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1623.9	1623.9	1623.9	1623.9	1623.9	1623.9	1623.9	1623.9	1623.9	1623.9	1623.9
2.5°	1500.8	1508.4	1512.5	1527.3	1530.8	1535.5	1547.9	1564.4	1585.6	1604.5	1621.0
5°	1375.8	1387.6	1394.7	1407.7	1433.0	1435.4	1468.4	1506.1	1549.1	1589.1	1622.1
7.5°	1257.4	1270.4	1276.3	1299.8	1333.4	1338.7	1387.0	1446.5	1518.4	1579.1	1629.8
10°	1168.4	1174.9	1187.9	1205.6	1245.6	1249.2	1312.2	1391.8	1484.8	1574.4	1642.8
12.5°	1120.1	1123.7	1126.6	1145.5	1184.9	1190.2	1256.2	1346.4	1458.3	1577.9	1664.0
15°	1127.2	1128.4	1115.4	1118.9	1150.8	1158.4	1223.8	1316.3	1441.8	1586.8	1695.8
17.5°	1186.7	1182.6	1150.8	1134.3	1156.7	1160.2	1217.3	1304.5	1434.2	1603.3	1728.8
20°	1280.4	1274.5	1219.7	1183.2	1196.1	1199.1	1238.6	1313.4	1441.8	1630.4	1780.1
22.5°	1397.1	1394.7	1311.6	1267.4	1266.8	1266.8	1287.5	1345.2	1464.8	1667.5	1833.7
25°	1560.3	1547.9	1439.5	1382.3	1366.4	1365.2	1362.9	1397.6	1494.3	1707.0	1897.3
27.5°	1727.6	1706.4	1609.8	1522.0	1487.8	1483.7	1468.4	1471.9	1532.0	1751.8	1969.8
30°	1877.9	1864.3	1773.6	1676.3	1635.7	1626.3	1583.8	1564.4	1595.0	1832.5	2085.3
32.5°	1992.8	1984.5	1913.8	1825.4	1765.3	1763.6	1701.7	1685.8	1693.4	1930.3	2217.3
35°	2085.9	2088.8	2052.9	1976.3	1907.3	1897.3	1856.1	1836.0	1813.6	2071.7	2383.4
37.5°	2213.1	2219.6	2217.3	2151.3	2067.0	2069.4	2059.9	2026.9	1967.4	2229.6	2567.8
40°	2353.4	2358.1	2357.5	2332.2	2288.0	2290.3	2286.8	2249.1	2160.1	2430.6	2772.9
42.5°	2547.2	2524.8	2466.5	2491.8	2517.8	2529.0	2553.1	2517.2	2395.2	2645.0	2965.6
45°	2764.1	2721.6	2589.6	2601.4	2697.5	2718.7	2851.9	2802.4	2650.3	2891.3	3192.4
47.5°	2900.8	2858.9	2747.6	2745.2	2872.5	2893.1	3128.8	3110.5	2882.5	3157.1	3469.4
50°	3022.7	3016.8	2891.3	2921.4	3045.7	3076.3	3430.5	3413.4	3114.1	3470.5	3771.0
52.5°	3203.6	3155.9	3055.7	3117.6	3282.0	3322.1	3729.8	3679.7	3326.8	3747.5	4063.9
55°	3284.9	3273.7	3267.8	3321.5	3547.1	3576.0	4020.9	3906.0	3508.3	3982.0	4286.6
57.5°	3502.4	3481.7	3540.1	3576.6	3859.4	3903.6	4324.9	4142.3	3667.3	4168.2	4395.0
60°	3784.0	3772.8	3826.4	3892.4	4208.3	4275.4	4671.4	4343.8	3795.2	4261.9	4335.5
62.5°	4204.7	4203.5	4193.5	4334.9	4702.6	4764.5	5069.1	4540.0	3815.2	4191.8	4027.9
65°	4808.1	4786.9	4699.7	4854.0	5317.8	5390.2	5483.3	4649.6	3694.4	3831.7	3391.6
67.5°	5439.1	5438.0	5367.3	5567.6	6201.0	6275.8	6001.3	4625.4	3359.2	3104.0	2408.8
70°	5962.4	5937.0	6027.2	6561.0	7329.4	7416.0	6454.4	4340.8	2675.7	2049.9	1431.2
72.5°	6087.9	6089.1	6276.4	7327.0	8413.0	8426.5	6617.6	3518.3	1790.7	1130.7	715.9
74°	5701.4	5711.4	6001.9	7365.3	8615.1	8553.8	6200.4	2765.2	1210.9	738.3	516.2
75°	5204.0	5141.0	5561.1	7110.2	8405.3	8339.3	5712.0	2219.0	923.9	589.8	451.9
77.5°	2782.3	2846.6	3494.7	5306.0	6828.5	6752.5	3873.0	1064.1	499.1	410.7	325.3
80°	990.5	1092.4	1535.5	2776.4	4377.9	4401.5	1848.4	487.9	351.2	302.9	229.8
82.5°	404.2	415.4	659.3	1232.1	2223.1	2244.4	754.8	289.9	251.0	208.6	137.3
85°	157.9	162.6	291.7	553.9	948.7	1010.5	261.0	153.2	154.4	119.6	70.1
87.5°	53.0	60.1	119.6	184.4	322.3	315.8	76.0	45.4	55.4	51.9	21.8
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°	1623.9	1623.9	1623.9	1623.9	1623.9	1623.9	1623.9	1623.9	1623.9	1623.9	1623.9
2.5°	1629.2	1640.4	1648.1	1656.3	1664.0	1666.3	1664.6	1669.9	1670.5	1671.0	1671.6
5°	1638.6	1654.0	1668.7	1676.9	1680.5	1677.5	1667.5	1662.2	1657.5	1654.0	1655.1
7.5°	1651.6	1673.4	1687.0	1690.5	1681.1	1667.5	1642.8	1623.3	1610.9	1602.7	1602.1
10°	1671.6	1692.8	1704.0	1694.0	1668.1	1635.1	1596.2	1559.7	1532.0	1523.7	1523.1
12.5°	1697.0	1721.1	1720.5	1691.1	1645.7	1586.8	1523.7	1481.3	1443.6	1424.7	1432.4
15°	1730.0	1748.2	1731.1	1678.1	1606.2	1525.5	1447.7	1390.0	1347.6	1327.5	1328.7
17.5°	1768.3	1784.2	1738.8	1655.1	1550.8	1447.1	1357.0	1302.2	1268.6	1253.9	1252.7
20°	1816.0	1820.7	1738.8	1615.1	1479.5	1355.8	1269.8	1231.5	1212.6	1205.0	1207.3
22.5°	1867.3	1857.8	1729.4	1558.5	1385.9	1260.4	1202.6	1185.5	1176.1	1174.9	1176.1
25°	1925.0	1898.5	1709.9	1481.9	1288.0	1177.9	1144.3	1147.2	1149.0	1149.0	1153.1
27.5°	1995.7	1942.7	1677.5	1385.3	1173.7	1101.3	1091.8	1112.5	1121.9	1123.7	1126.6
30°	2088.8	1991.0	1623.9	1264.5	1076.5	1032.3	1048.8	1076.5	1087.1	1093.6	1092.4
32.5°	2199.6	2044.0	1551.4	1143.7	998.1	984.0	1004.0	1032.3	1044.1	1047.6	1042.9
35°	2329.8	2104.1	1456.0	1030.6	929.8	938.0	961.6	970.5	981.1	981.1	983.4
37.5°	2470.0	2152.4	1339.3	926.9	876.8	906.8	923.9	915.7	910.9	905.1	908.0
40°	2612.6	2188.4	1187.9	824.3	823.7	874.4	879.1	855.6	836.7	830.8	827.9
42.5°	2737.0	2210.8	1051.2	744.8	773.7	842.6	846.1	808.4	778.4	760.7	754.8
45°	2883.7	2236.7	917.4	678.8	727.1	817.3	826.1	775.4	731.2	694.1	684.7
47.5°	3084.6	2295.6	812.0	627.5	693.5	801.3	813.7	748.3	690.0	641.7	634.0
50°	3311.5	2376.3	730.1	592.8	667.6	787.2	802.5	720.6	651.7	598.1	592.2
52.5°	3519.4	2420.0	659.3	561.5	642.3	761.3	787.8	700.6	614.0	554.5	549.2
55°	3633.2	2349.2	589.8	530.9	607.5	727.7	767.2	672.9	577.4	531.5	523.8
57.5°	3648.5	2203.1	526.8	497.9	571.0	686.4	728.9	639.3	553.9	515.6	509.1
60°	3530.1	1985.1	477.9	470.8	533.8	639.9	685.9	609.8	529.7	497.9	491.4
62.5°	3235.4	1748.2	443.7	446.0	496.1	591.0	654.0	581.6	506.7	478.5	472.6
65°	2728.7	1443.0	410.7	420.7	462.5	552.7	625.2	558.0	483.8	463.7	458.4
67.5°	1895.5	1041.8	383.6	394.2	430.7	513.8	591.6	532.7	457.8	447.2	439.0
70°	1049.4	641.1	351.8	364.1	397.7	470.2	553.9	494.4	420.1	415.4	403.6
72.5°	551.5	408.3	315.8	329.4	352.9	414.2	496.1	452.5	383.0	363.0	347.6
74°	430.7	334.7	291.7	305.8	321.7	381.2	462.0	422.5	356.5	332.9	321.1
75°	375.3	298.1	271.0	289.3	303.5	358.8	435.4	401.3	341.8	319.4	308.8
77.5°	265.2	223.3	221.5	243.4	251.0	314.6	392.4	365.3	304.6	281.1	271.0
80°	186.2	167.3	175.6	189.1	199.7	278.1	364.1	315.8	249.8	222.1	218.6
82.5°	121.4	109.6	125.5	137.9	141.4	205.1	294.0	239.8	182.1	147.9	137.3
85°	56.0	54.8	71.9	70.1	69.5	100.2	174.4	140.2	104.9	78.4	73.7
87.5°	14.1	13.6	17.7	14.7	17.7	15.3	15.9	4.1	0.6	0.0	0.0
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)