

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: P527048

Luminaire Tested: **GALN-SA2A-735-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527048
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2A-735-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7304 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

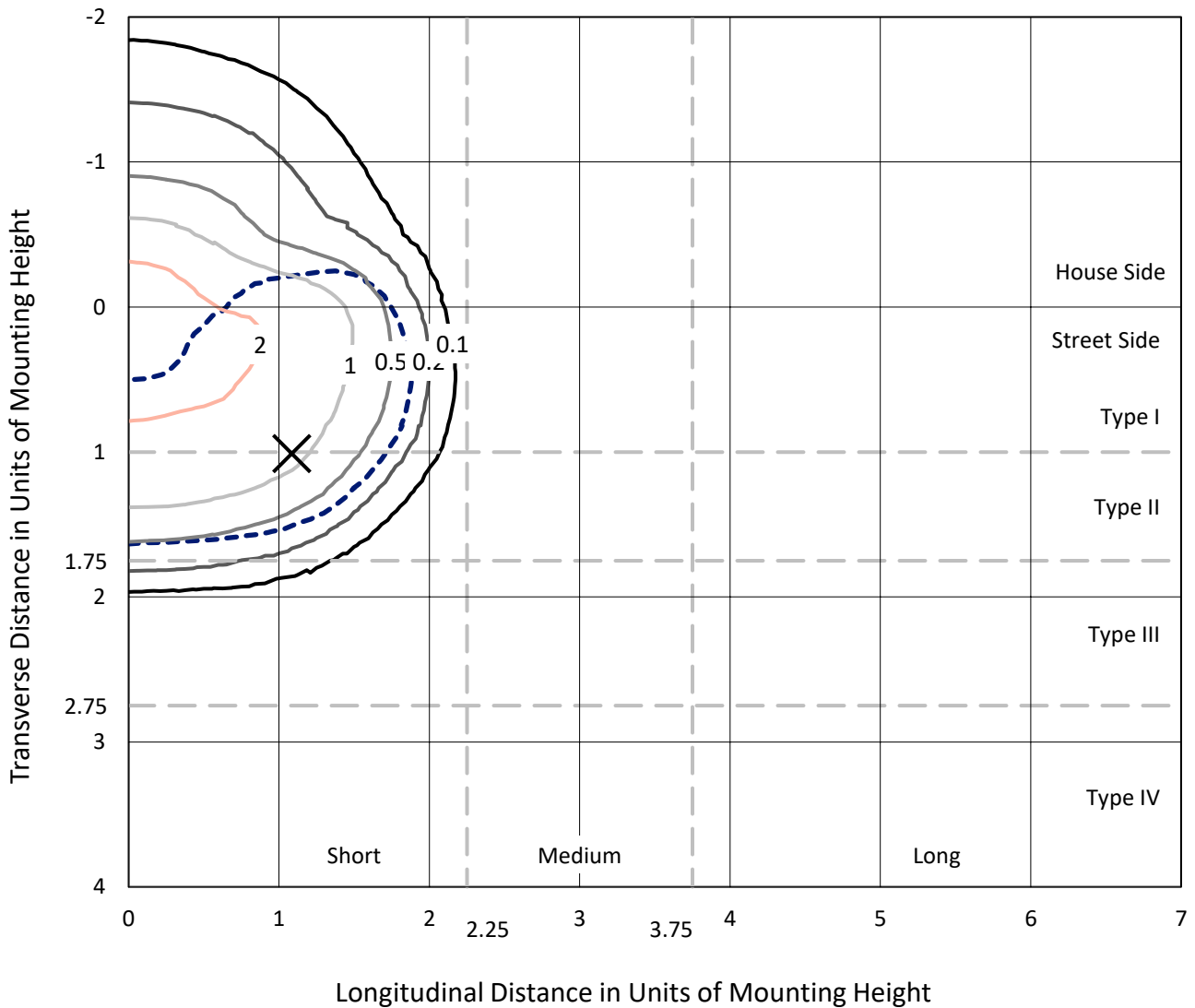
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P527048
 CATALOG NUMBER: GALN-SA2A-735-U-T3-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

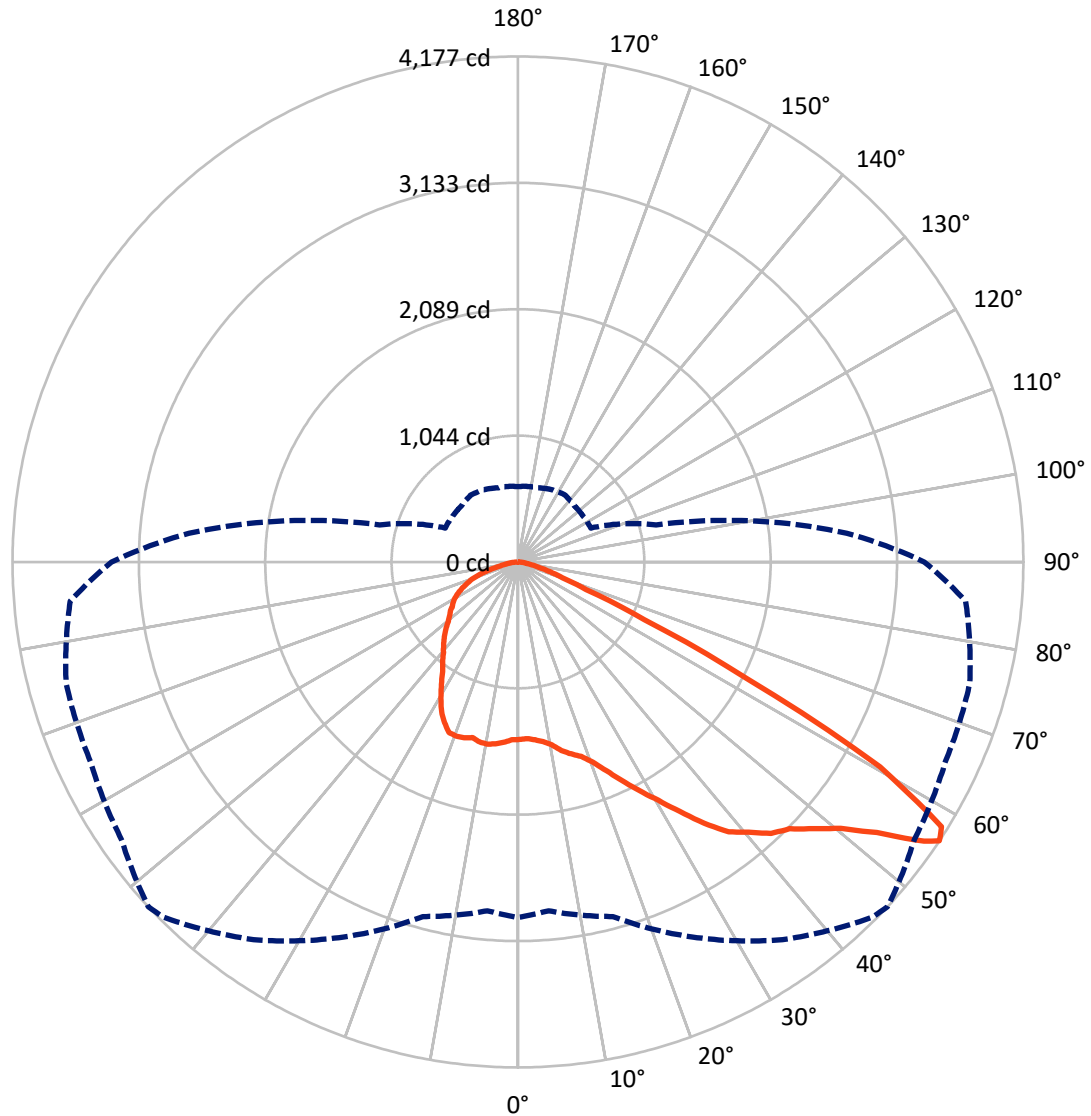
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type II - Short - N/A

REPORT NUMBER: P527048
CATALOG NUMBER: GALN-SA2A-735-U-T3-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P527048
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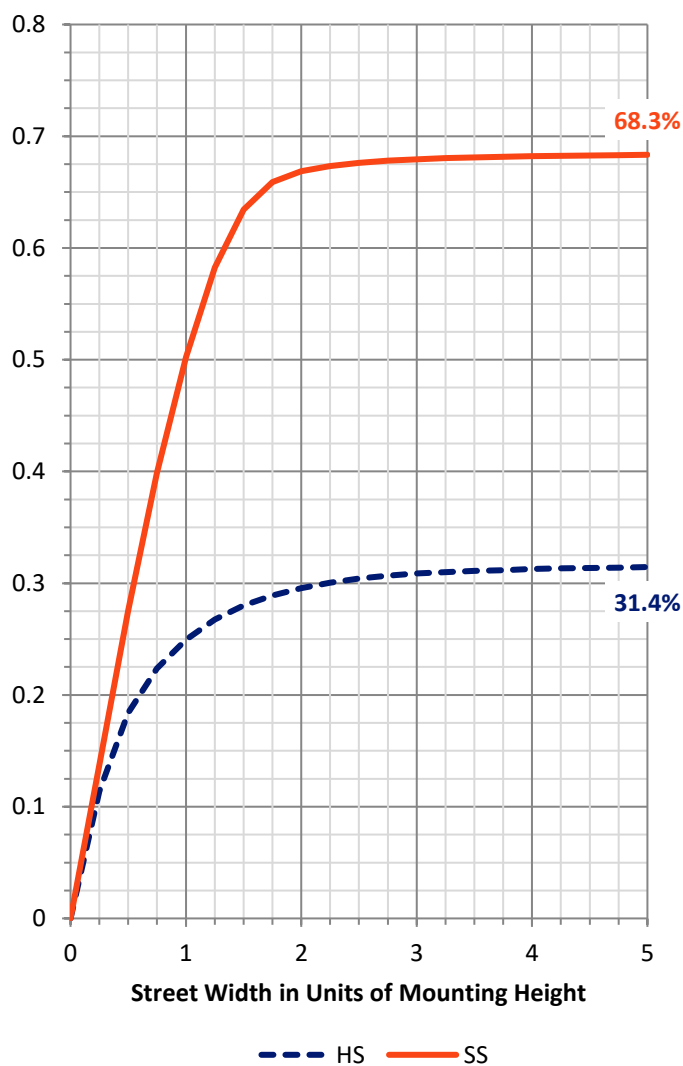
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2314.5	0.0	2314.5
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	4989.5	0.0	4989.5
	% Fixture	68.3	0.0	68.3
Total	Lumens	7304.0	0.0	7304.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.0	2.0
10°-20°	450.9	6.2
20°-30°	797.2	10.9
30°-40°	1197.3	16.4
40°-50°	1643.2	22.5
50°-60°	1957.7	26.8
60°-70°	837.8	11.5
70°-80°	237.1	3.2
80°-90°	39.9	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°	7304.0	100.0
0°-180°	7304.0	100.0

Coefficient of Utilization



REPORT NUMBER: P527048

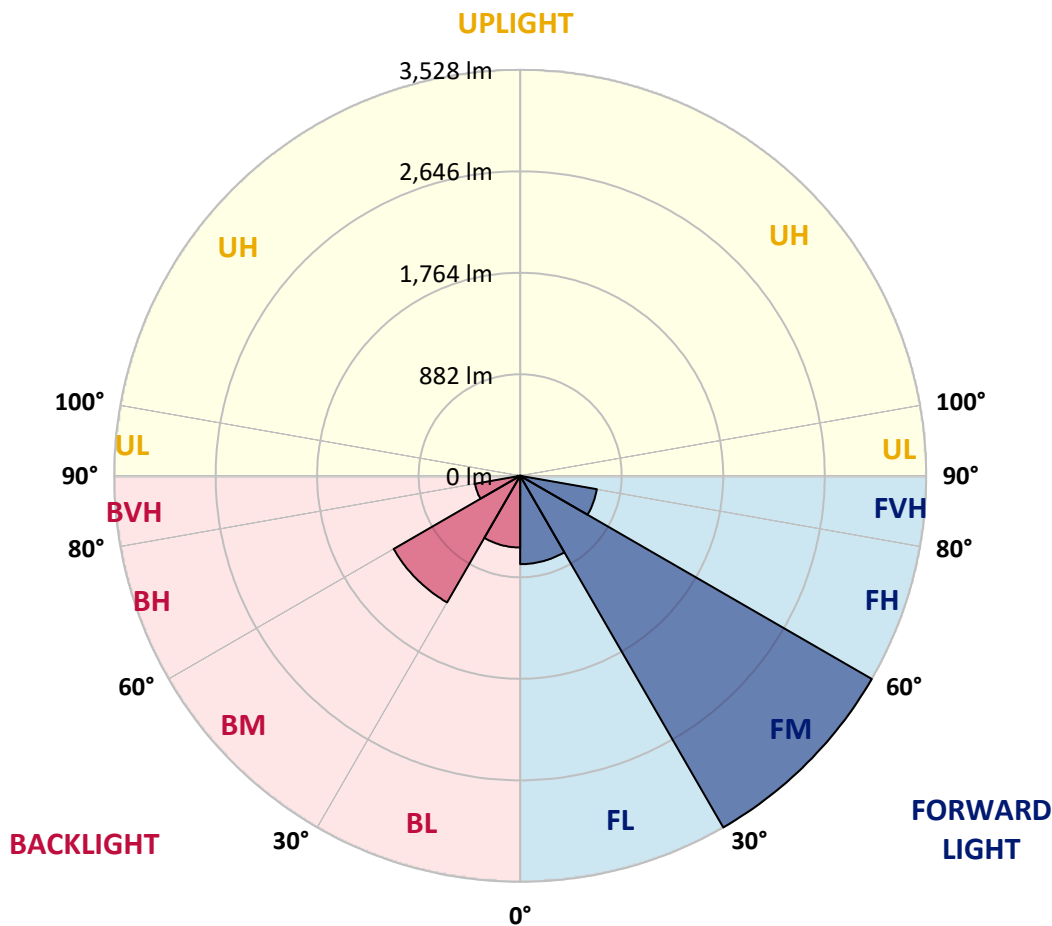
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	767.9	10.5			
FM (30°-60°)	3528.0	48.3			
FH (60°-80°)	676.6	9.3			G1/1800
FVH (80°-90°)	16.9	0.2			G1/100
BL (0°-30°)	623.2	8.5	B2/1000		
BM (30°-60°)	1270.2	17.4	B2/2500		
BH (60°-80°)	398.2	5.5	B1/500		G1/500
BVH (80°-90°)	23.0	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





REPORT NUMBER: P527048

CATALOG NUMBER: GALN-SA2A-735-U-T3-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2
2.5°	1461.6	1458.8	1456.9	1471.8	1466.2	1467.2	1461.6	1467.2	1470.9	1462.5	1474.6
5°	1458.8	1467.2	1459.7	1464.4	1476.5	1472.7	1476.5	1487.6	1484.9	1482.1	1478.3
7.5°	1484.9	1485.8	1491.4	1493.2	1497.0	1493.2	1498.8	1509.1	1506.3	1490.4	1492.3
10°	1522.1	1524.0	1524.9	1535.2	1541.7	1542.6	1536.1	1526.8	1525.8	1547.3	1532.4
12.5°	1565.0	1560.3	1571.5	1575.2	1582.7	1591.0	1599.4	1579.9	1592.0	1592.9	1575.2
15°	1627.4	1632.0	1619.0	1619.0	1621.8	1622.7	1646.0	1636.7	1634.8	1624.6	1632.0
17.5°	1720.5	1688.9	1687.9	1674.9	1673.0	1680.5	1688.9	1696.3	1721.5	1701.0	1660.9
20°	1788.5	1796.0	1769.0	1753.1	1755.9	1772.7	1764.3	1797.8	1815.5	1782.0	1742.9
22.5°	1908.7	1883.5	1890.1	1854.7	1857.5	1875.2	1874.2	1908.7	1918.9	1865.8	1809.0
25°	1989.7	1983.2	1988.8	1960.9	1964.6	1978.6	2000.9	2057.7	2041.0	1982.3	1850.9
27.5°	2108.0	2095.0	2090.3	2080.1	2076.4	2113.6	2139.7	2200.3	2188.2	2102.5	1925.5
30°	2229.1	2220.8	2225.4	2183.5	2198.4	2277.6	2285.0	2367.9	2362.3	2211.4	2008.4
32.5°	2313.0	2317.6	2326.0	2302.7	2368.9	2432.2	2457.4	2551.4	2556.1	2398.7	2168.6
35°	2448.0	2432.2	2436.9	2463.9	2494.6	2610.1	2651.1	2713.5	2752.7	2595.2	2322.3
37.5°	2532.8	2549.6	2530.0	2572.9	2653.0	2791.8	2829.0	2893.3	2934.3	2789.0	2531.9
40°	2665.1	2638.1	2652.1	2682.8	2764.8	2945.5	2935.2	3001.4	3014.4	2953.9	2727.5
42.5°	2807.6	2794.6	2775.0	2844.9	2913.8	3045.2	3065.6	3034.9	3101.0	3115.0	3007.0
45°	2978.1	2993.9	2996.7	2998.6	3059.1	3173.7	3145.8	3118.7	3195.1	3296.7	3180.2
47.5°	3136.4	3086.1	3122.5	3172.8	3258.5	3259.4	3292.0	3227.7	3308.8	3399.1	3336.7
50°	3189.5	3165.3	3213.8	3308.8	3441.1	3455.0	3458.8	3367.5	3409.4	3481.1	3390.8
52.5°	3169.0	3160.7	3284.6	3431.7	3625.5	3696.3	3714.9	3602.2	3625.5	3592.9	3510.0
55°	3071.2	3096.4	3221.2	3521.2	3818.3	4037.2	4072.6	3930.1	3782.0	3807.1	3715.9
56°	2937.1	2893.3	3033.0	3419.6	3809.9	4148.1	4177.0	3999.0	3898.4	3865.8	3714.0
57.5°	2491.8	2435.0	2618.5	3076.8	3598.5	4106.2	4127.6	4027.9	3878.9	3812.7	3442.9
60°	1458.8	1486.7	1719.6	2122.0	2775.9	3366.5	3438.3	3510.9	3411.2	3115.0	2562.6
62.5°	704.2	686.5	853.3	1216.6	1691.6	2149.0	2127.6	2331.6	2443.4	2213.3	1618.1
65°	368.9	367.0	465.8	664.2	929.7	1129.0	1148.6	1258.5	1412.2	1140.2	821.6
67.5°	271.1	278.5	327.9	466.7	598.0	610.1	607.4	662.3	677.2	572.9	504.9
70°	212.4	216.1	252.4	354.9	445.3	398.7	390.3	396.8	440.6	459.2	436.9
72.5°	153.7	157.4	188.2	239.4	278.5	272.0	277.6	313.9	368.0	387.5	364.2
75°	102.5	105.3	122.0	146.2	164.9	177.9	188.2	230.1	280.4	291.6	280.4
77.5°	70.8	73.6	84.8	103.4	105.3	113.6	117.4	136.9	167.7	181.6	174.2
80°	40.1	40.1	45.6	53.1	65.2	76.4	78.2	94.1	108.1	117.4	119.2
82.5°	18.6	19.6	24.2	32.6	42.9	53.1	55.0	65.2	75.5	84.8	87.6
85°	9.3	10.2	14.0	19.6	26.1	31.7	30.7	31.7	33.5	31.7	32.6
87.5°	2.8	2.8	3.7	4.7	3.7	4.7	4.7	5.6	6.5	7.5	8.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P527048

CATALOG NUMBER: GALN-SA2A-735-U-T3-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2
2.5°	1475.5	1478.3	1459.7	1477.4	1470.9	1469.9	1483.0	1481.1	1485.8	1483.9	1472.7
5°	1476.5	1469.9	1489.5	1471.8	1480.2	1497.9	1485.8	1513.7	1499.8	1509.1	1488.6
7.5°	1505.3	1507.2	1503.5	1510.9	1507.2	1515.6	1509.1	1515.6	1504.4	1505.3	1524.0
10°	1530.5	1524.9	1531.4	1522.1	1528.6	1525.8	1510.9	1506.3	1510.0	1505.3	1517.5
12.5°	1577.1	1566.8	1562.2	1551.0	1543.5	1515.6	1492.3	1479.3	1497.0	1499.8	1494.2
15°	1624.6	1625.5	1604.1	1578.9	1532.4	1490.4	1496.0	1500.7	1500.7	1508.1	1494.2
17.5°	1654.4	1654.4	1634.8	1584.5	1537.0	1512.8	1507.2	1492.3	1479.3	1477.4	1476.5
20°	1706.6	1690.7	1646.0	1583.6	1535.2	1524.0	1482.1	1446.7	1419.6	1410.3	1409.4
22.5°	1766.2	1726.1	1663.7	1585.5	1532.4	1516.5	1438.3	1385.2	1336.7	1316.2	1319.0
25°	1821.1	1756.9	1674.0	1577.1	1522.1	1445.7	1358.2	1284.6	1234.3	1217.5	1209.1
27.5°	1859.3	1789.5	1674.0	1584.5	1483.9	1366.5	1277.1	1183.0	1139.3	1128.1	1129.9
30°	1910.6	1830.4	1702.8	1568.7	1407.5	1264.1	1157.0	1095.5	1069.4	1060.1	1066.6
32.5°	2030.7	1937.6	1742.9	1530.5	1317.2	1161.6	1075.0	1040.5	1002.3	983.7	977.2
35°	2161.1	2039.1	1782.0	1466.2	1215.6	1068.5	1014.4	982.8	937.1	916.6	920.3
37.5°	2345.6	2169.5	1784.8	1360.0	1105.7	1016.3	966.9	917.6	880.3	848.6	839.3
40°	2594.3	2347.4	1778.3	1248.2	1017.2	954.8	918.5	857.0	815.1	792.7	797.4
42.5°	2813.2	2556.1	1751.3	1121.6	937.1	912.9	871.9	811.4	770.4	747.1	745.2
45°	2997.6	2709.8	1700.0	1013.5	870.0	866.3	818.8	772.2	739.6	718.2	727.5
47.5°	3168.1	2833.7	1622.7	905.4	808.6	816.0	770.4	741.5	721.0	701.4	700.5
50°	3229.6	2831.8	1554.7	816.0	759.2	755.5	753.6	722.9	701.4	684.7	692.1
52.5°	3332.1	2863.5	1481.1	754.5	714.5	715.4	721.9	699.6	675.4	665.1	674.4
55°	3479.2	2868.2	1319.0	682.8	677.2	683.7	683.7	668.8	648.3	640.0	635.3
56°	3359.1	2729.4	1183.0	664.2	658.6	658.6	676.3	659.5	634.4	627.8	622.3
57.5°	3098.3	2391.2	990.2	641.8	633.4	646.5	655.8	638.1	614.8	605.5	611.1
60°	2136.9	1618.1	744.3	593.4	593.4	614.8	622.3	596.2	585.9	585.0	577.5
62.5°	1247.3	942.7	582.2	549.6	551.5	569.2	574.8	559.8	546.8	562.6	570.1
65°	661.4	562.6	499.3	503.0	504.0	517.9	542.1	541.2	540.3	544.9	545.9
67.5°	478.8	467.6	453.7	449.9	451.8	462.0	486.3	504.9	504.0	492.8	484.4
70°	426.6	410.8	402.4	403.4	395.9	408.0	427.6	439.7	418.3	405.2	399.6
72.5°	354.9	350.3	344.7	345.6	330.7	327.9	305.5	305.5	300.0	296.2	302.7
75°	271.1	269.2	272.0	267.3	251.5	234.7	221.7	209.6	191.0	183.5	179.8
77.5°	171.4	177.0	183.5	173.3	166.7	154.6	141.6	129.5	114.6	106.2	106.2
80°	116.4	121.1	125.8	123.9	116.4	105.3	95.0	82.0	71.7	65.2	64.3
82.5°	88.5	92.2	98.7	91.3	83.8	74.5	66.1	56.8	47.5	40.1	40.1
85°	31.7	36.3	40.1	43.8	46.6	47.5	41.0	33.5	27.0	21.4	20.5
87.5°	8.4	9.3	10.2	9.3	9.3	9.3	10.2	9.3	8.4	6.5	6.5
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)