

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: P647853

Luminaire Tested: **GALN-SA3A-835-U-T3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647853  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3A-835-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10600.2 lumens  
Efficiency: N/A  
Efficacy: 114.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

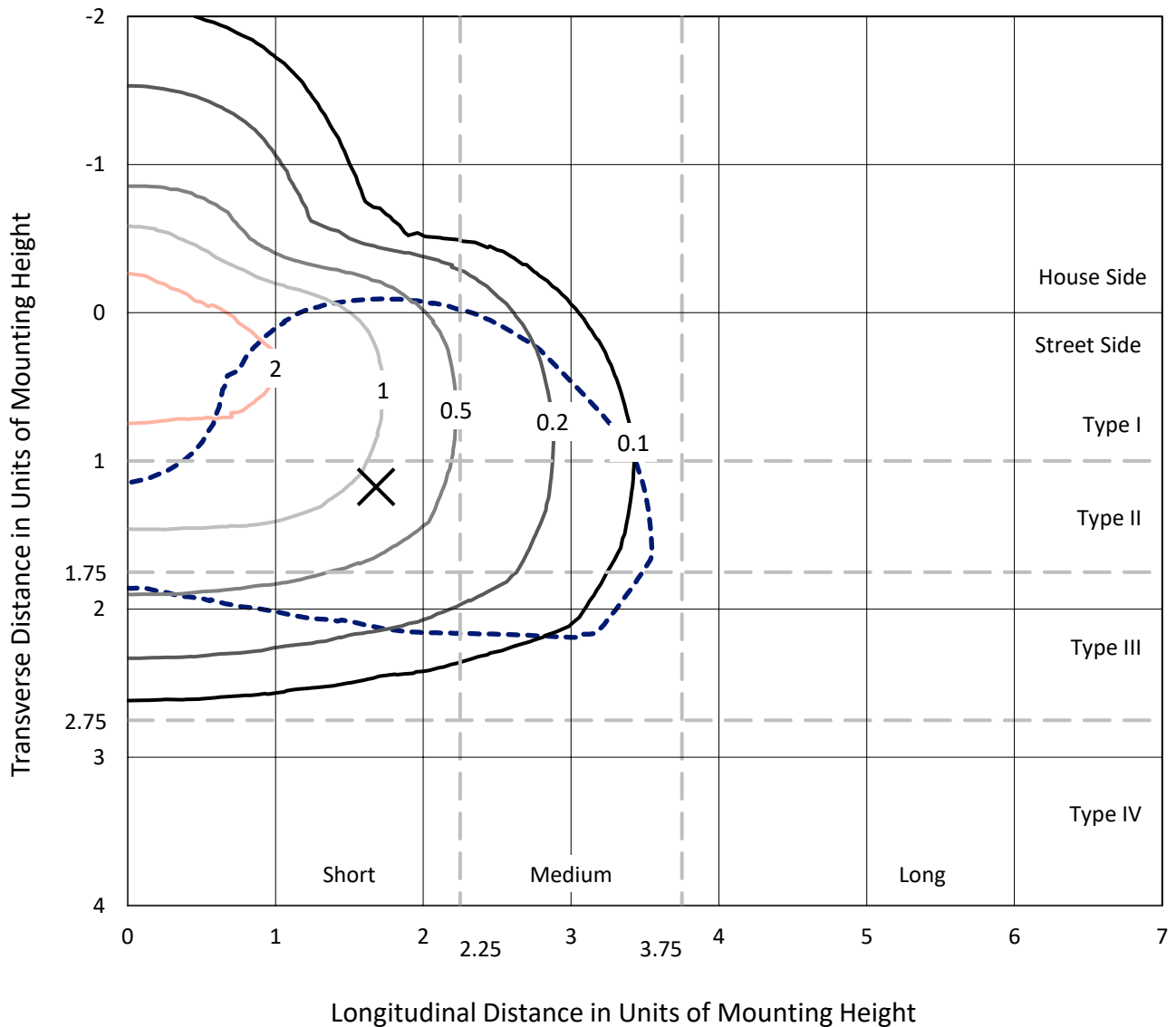
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

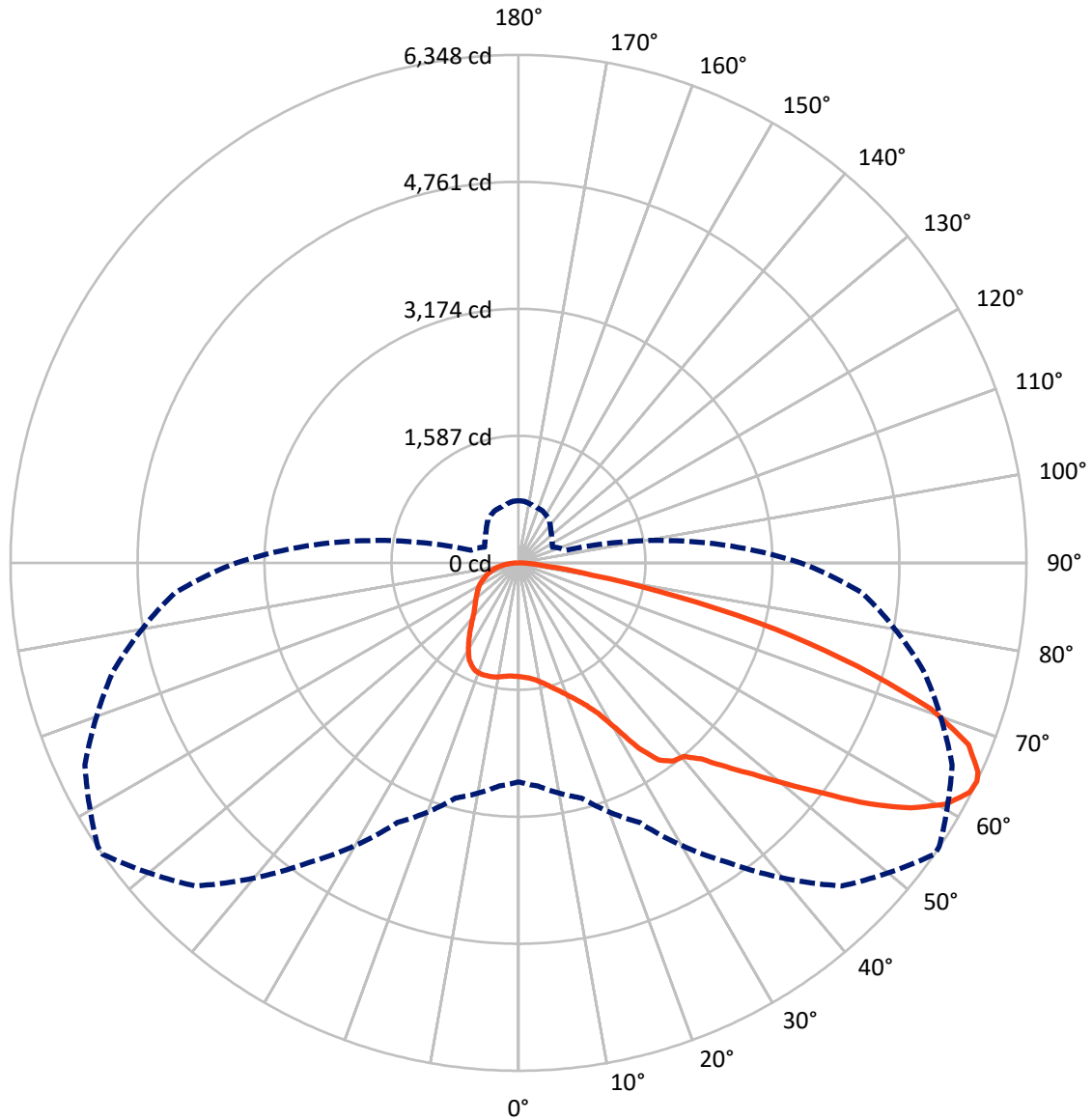
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

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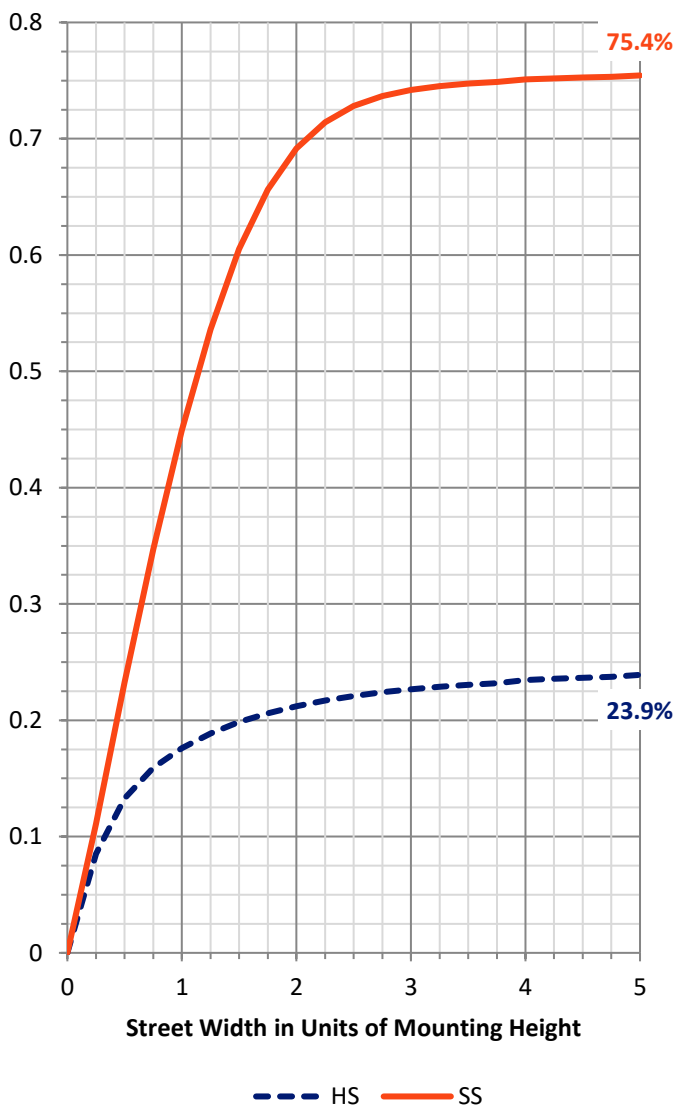
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2575.0	0.0	2575.0
	% Fixture	24.3	0.0	24.3
<b>Street Side</b>	Lumens	8025.2	0.0	8025.2
	% Fixture	75.7	0.0	75.7
<b>Total</b>	Lumens	10600.2	0.0	10600.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	138.3	1.3
10°-20°	436.5	4.1
20°-30°	777.1	7.3
30°-40°	1195.7	11.3
40°-50°	1695.0	16.0
50°-60°	2453.4	23.1
60°-70°	2539.1	24.0
70°-80°	1189.0	11.2
80°-90°	176.0	1.7
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°	10600.2	100.0
0°-180°	10600.2	100.0

**Coefficient of Utilization**

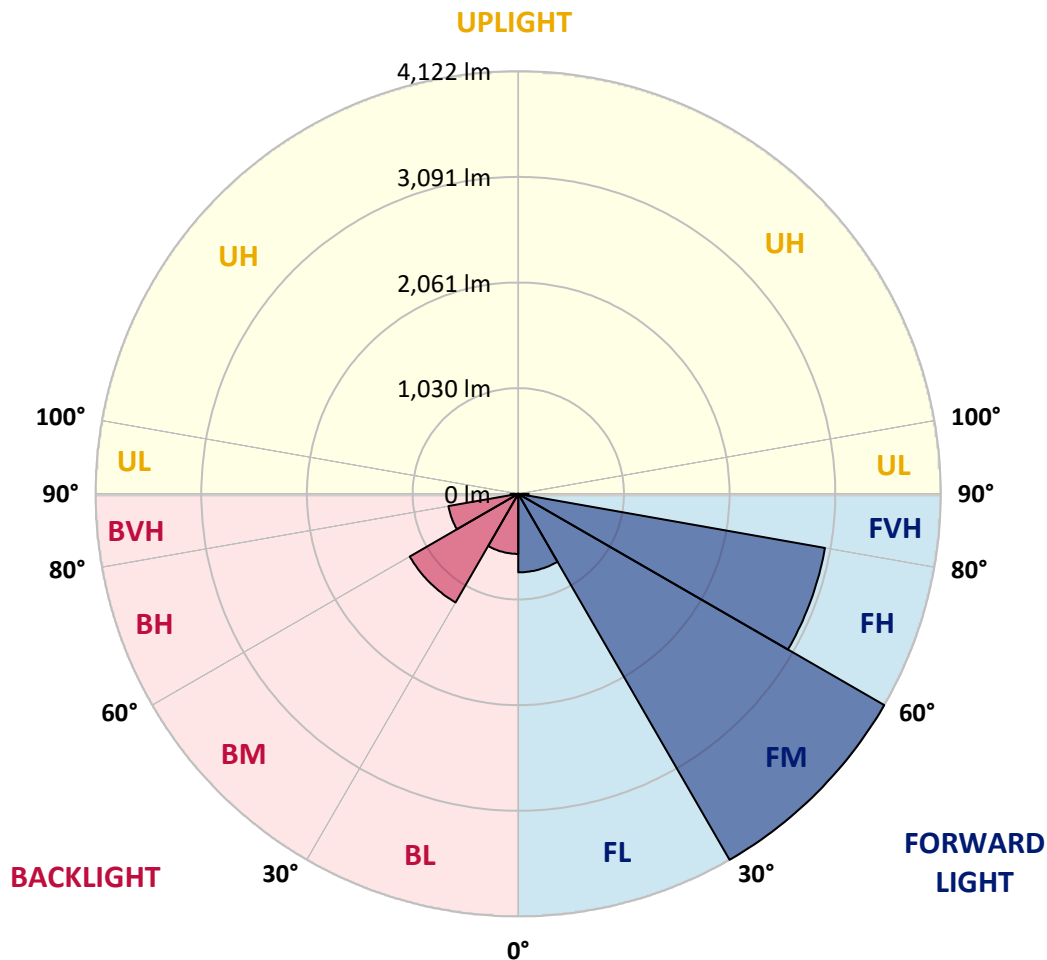


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	765.5	7.2			
FM (30°-60°)	4121.7	38.9			
FH (60°-80°)	3037.3	28.7			G2/5000
FVH (80°-90°)	100.8	1.0			G2/225
BL (0°-30°)	586.5	5.5	B2/1000		
BM (30°-60°)	1222.5	11.5	B2/2500		
BH (60°-80°)	690.8	6.5	B2/1000		G2/1000
BVH (80°-90°)	75.2	0.7			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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1422.2	1422.2	1422.2	1422.2	1422.2	1422.2	1422.2	1422.2	1422.2	1422.2	1422.2
2.5°	1438.2	1437.6	1439.4	1437.6	1438.8	1434.6	1432.9	1434.1	1432.3	1429.3	1424.0
5°	1455.9	1455.4	1455.9	1453.6	1454.7	1452.4	1448.2	1449.4	1446.4	1439.9	1432.3
7.5°	1486.1	1483.7	1483.7	1483.1	1480.7	1477.2	1474.2	1473.1	1470.1	1461.9	1450.0
10°	1525.0	1525.0	1525.7	1520.9	1523.9	1517.4	1514.4	1513.9	1503.8	1493.1	1476.6
12.5°	1576.4	1579.4	1577.7	1575.2	1574.1	1571.7	1561.7	1564.0	1552.8	1534.5	1514.4
15°	1640.2	1645.0	1642.0	1640.9	1637.9	1629.0	1624.9	1623.2	1608.4	1581.7	1555.2
17.5°	1724.8	1718.8	1716.5	1713.5	1701.1	1694.6	1687.5	1686.3	1673.3	1642.0	1600.7
20°	1798.6	1806.9	1802.2	1799.2	1786.8	1774.4	1769.1	1767.3	1756.1	1721.8	1655.7
22.5°	1886.6	1888.4	1890.2	1883.1	1877.2	1867.8	1858.3	1855.3	1851.2	1815.8	1734.8
25°	1980.6	1987.7	1981.8	1974.7	1967.6	1967.1	1975.9	1974.7	1972.9	1938.6	1840.0
27.5°	2133.7	2140.2	2141.9	2134.2	2107.1	2109.4	2129.5	2136.0	2163.2	2106.5	1975.3
30°	2219.9	2226.4	2241.2	2270.2	2313.3	2351.1	2399.5	2414.3	2440.3	2333.3	2136.0
32.5°	2273.1	2275.5	2302.0	2355.8	2485.2	2626.4	2758.2	2763.5	2780.0	2630.0	2283.1
35°	2357.0	2358.8	2380.0	2439.1	2590.9	2826.2	3030.0	3036.5	3022.9	2722.2	2351.7
37.5°	2460.4	2465.1	2478.7	2527.8	2709.2	2993.3	3142.9	3138.1	3017.6	2795.4	2472.8
40°	2611.1	2611.1	2595.1	2661.3	2833.8	3089.1	3182.4	3174.2	3142.3	3007.6	2657.2
42.5°	2744.0	2741.7	2779.5	2824.4	2989.8	3236.8	3348.5	3362.0	3414.7	3274.0	2867.0
45°	2917.1	2927.8	2949.1	3030.6	3255.1	3489.1	3633.3	3646.3	3720.7	3587.8	3112.1
47.5°	3092.1	3095.6	3162.4	3271.1	3583.6	3831.2	3949.4	3970.7	4038.6	3954.7	3376.2
50°	3216.1	3249.8	3356.7	3528.1	3922.2	4248.4	4340.6	4366.0	4485.9	4354.2	3684.1
52.5°	3347.3	3380.4	3511.0	3772.1	4311.0	4675.0	4788.4	4805.6	4930.2	4758.3	3999.0
55°	3459.6	3490.3	3638.6	3988.4	4620.6	5110.5	5316.1	5296.0	5355.7	5069.7	4241.9
57.5°	3477.9	3502.7	3689.4	4126.6	4853.4	5483.9	5778.8	5790.6	5721.5	5302.5	4442.2
60°	3336.0	3386.9	3601.4	4111.9	4958.0	5743.9	6123.8	6132.1	5935.9	5421.9	4522.0
62.5°	3084.9	3079.6	3339.0	3874.4	4811.5	5803.0	6327.1	6318.2	6019.9	5364.6	4444.5
64°	2738.1	2801.9	3044.1	3582.5	4575.1	5712.0	6348.3	6343.6	5979.6	5245.2	4312.8
65°	2526.6	2523.1	2762.3	3343.7	4339.9	5574.9	6310.5	6304.0	5895.8	5138.3	4210.6
67.5°	1824.0	1832.3	2068.7	2580.4	3528.1	5039.0	6064.2	6039.9	5564.9	4783.7	3821.7
70°	1105.0	1109.7	1295.2	1711.8	2532.5	4073.5	5466.2	5467.4	5058.5	4254.3	3252.7
72.5°	582.0	594.5	668.8	972.0	1538.0	2858.0	4434.5	4539.7	4342.9	3630.9	2569.7
75°	323.8	325.6	378.2	479.2	784.6	1599.5	3333.2	3363.2	3438.3	2922.5	1900.3
77.5°	247.0	250.6	267.1	309.6	427.2	741.6	2017.2	2168.5	2423.2	2060.4	1084.2
80°	200.3	203.8	218.1	243.4	284.2	351.6	937.1	1018.7	1297.0	914.7	423.1
82.5°	156.0	153.6	171.9	188.5	206.8	208.0	384.7	425.4	528.2	393.5	183.1
85°	115.8	115.8	130.6	127.0	133.5	121.8	169.6	187.3	211.6	167.2	85.1
87.5°	46.1	50.8	85.7	76.8	59.7	47.8	62.6	66.2	73.3	65.6	35.5
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°	1422.2	1422.2	1422.2	1422.2	1422.2	1422.2	1422.2	1422.2	1422.2	1422.2	1422.2
2.5°	1424.6	1426.4	1422.2	1419.3	1418.1	1416.3	1414.6	1415.1	1417.5	1419.9	1419.3
5°	1431.7	1432.3	1425.2	1421.6	1419.3	1416.9	1416.9	1418.7	1423.4	1426.9	1426.9
7.5°	1449.4	1449.4	1439.4	1432.9	1429.3	1425.2	1424.0	1424.6	1428.1	1432.9	1433.4
10°	1477.2	1474.9	1461.9	1451.8	1445.3	1435.2	1426.4	1421.6	1423.4	1426.4	1426.4
12.5°	1510.9	1504.4	1487.9	1474.2	1458.3	1439.4	1421.1	1411.6	1411.0	1413.9	1412.8
15°	1546.9	1539.8	1516.7	1491.9	1464.2	1436.4	1414.6	1400.9	1390.3	1387.4	1393.9
17.5°	1588.9	1574.1	1542.2	1507.9	1466.6	1430.5	1396.2	1368.4	1349.6	1344.3	1346.0
20°	1639.7	1620.2	1577.0	1523.2	1464.8	1409.2	1356.1	1318.8	1288.1	1278.6	1279.8
22.5°	1710.0	1676.3	1613.1	1530.9	1450.0	1369.1	1295.2	1246.8	1209.5	1194.8	1203.6
25°	1789.8	1753.1	1647.4	1529.2	1411.6	1304.6	1223.1	1159.9	1126.2	1104.3	1109.0
27.5°	1899.6	1834.6	1684.0	1513.2	1356.6	1226.1	1131.5	1071.8	1041.2	1029.9	1035.2
30°	2040.3	1940.4	1723.6	1470.1	1269.8	1126.8	1039.4	1000.4	982.0	967.9	972.6
32.5°	2141.9	2014.9	1732.5	1397.4	1175.8	1036.4	976.7	947.7	927.7	914.1	917.0
35°	2214.6	2078.1	1728.3	1308.2	1077.7	961.9	927.1	903.4	870.9	841.4	836.1
37.5°	2312.1	2157.2	1698.2	1210.7	980.9	911.7	886.9	843.2	796.5	756.9	755.1
40°	2461.6	2250.0	1633.7	1096.0	898.1	874.5	844.4	787.6	737.4	705.5	703.1
42.5°	2615.8	2335.7	1546.3	975.5	830.2	835.5	798.9	742.8	712.0	691.3	689.0
45°	2804.3	2428.5	1451.8	870.9	779.9	798.9	759.3	726.8	708.5	694.8	691.3
47.5°	3008.1	2523.6	1345.4	777.0	737.4	765.1	742.8	728.0	717.9	708.5	704.3
50°	3227.9	2630.0	1245.6	701.3	699.0	730.3	741.0	735.6	729.8	726.8	723.3
52.5°	3469.0	2738.7	1161.7	648.2	665.3	705.5	741.6	745.7	745.7	743.9	741.6
55°	3632.1	2814.3	1076.5	605.0	631.0	685.4	740.3	756.3	762.3	759.9	757.5
57.5°	3752.6	2855.7	969.6	567.8	602.1	665.9	733.8	757.5	763.4	766.4	765.1
60°	3777.4	2817.3	829.6	528.8	570.8	637.5	710.3	739.8	747.5	765.8	767.6
62.5°	3665.8	2699.1	690.1	490.4	532.4	594.5	678.3	719.7	735.1	763.4	766.4
64°	3528.7	2566.8	612.7	466.2	507.5	570.2	662.3	714.3	734.5	772.3	774.6
65°	3428.3	2470.4	564.3	450.9	491.6	554.2	653.5	716.1	739.8	785.9	789.4
67.5°	3058.4	2139.0	466.8	414.8	453.8	527.0	655.3	730.9	738.6	791.1	790.6
70°	2530.7	1702.9	391.2	381.7	417.2	505.2	648.2	707.3	707.8	742.8	734.5
72.5°	1894.9	1258.6	339.2	347.4	376.4	453.2	612.1	675.3	665.3	670.0	661.8
75°	1301.7	832.6	291.9	310.8	333.9	400.6	561.3	613.3	597.4	591.5	585.5
77.5°	694.8	460.3	242.9	274.8	290.1	346.2	489.8	540.0	523.5	500.5	492.8
80°	281.3	216.8	195.6	227.5	236.4	278.9	407.7	439.0	426.6	386.4	373.4
82.5°	141.3	130.0	153.6	179.1	179.6	199.1	303.1	332.7	304.9	255.9	244.6
85°	73.8	76.2	105.8	125.8	111.1	107.5	182.0	201.5	184.9	160.7	144.8
87.5°	26.6	30.7	55.5	55.0	39.0	20.7	40.2	19.5	10.6	6.5	8.3
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)