

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: P528110

Luminaire Tested: **GALN-SA3A-830-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528110
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-830-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 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: 9099 lumens
Efficiency: N/A
Efficacy: 97.8 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

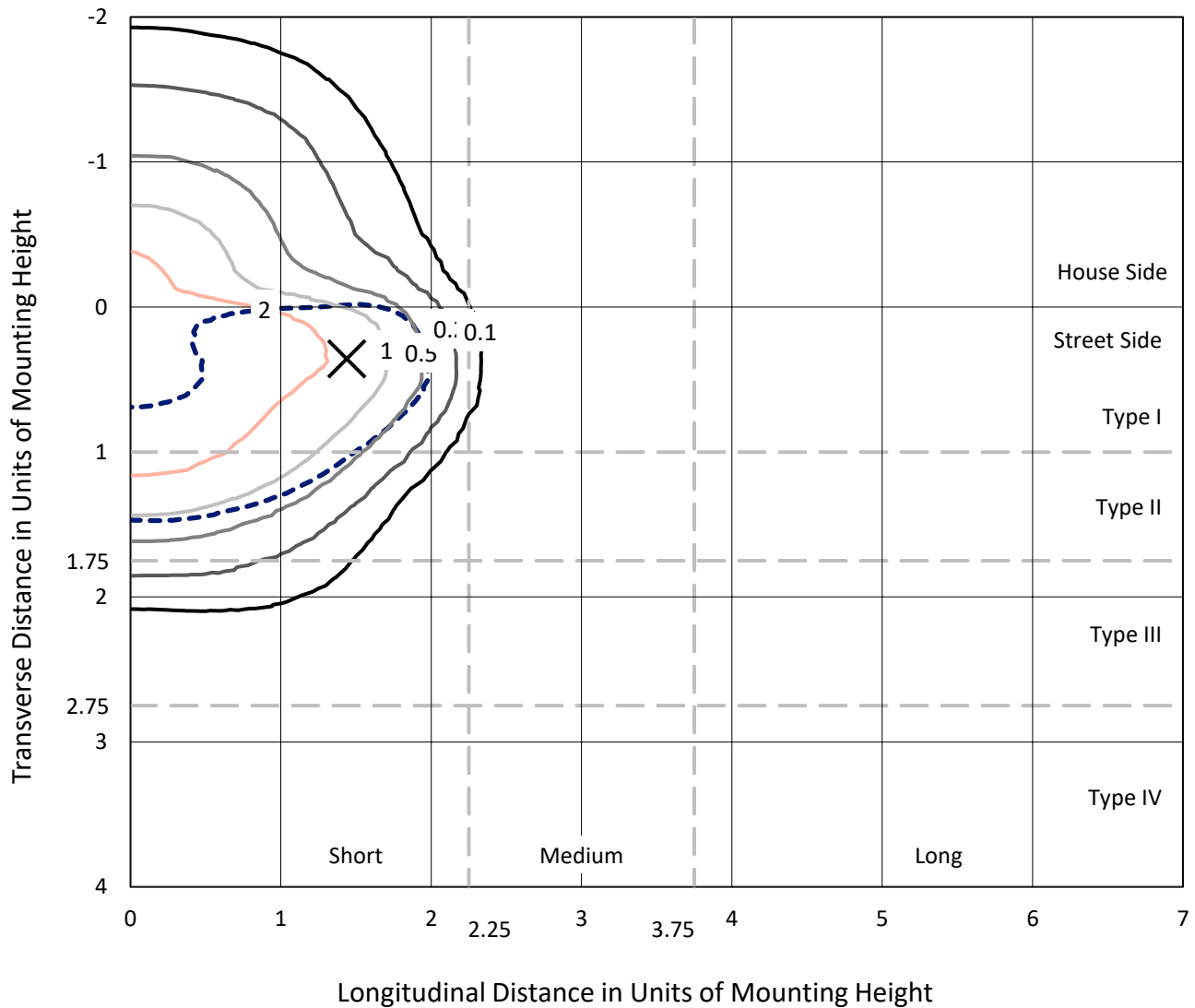


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 --- 1/2 Max cd

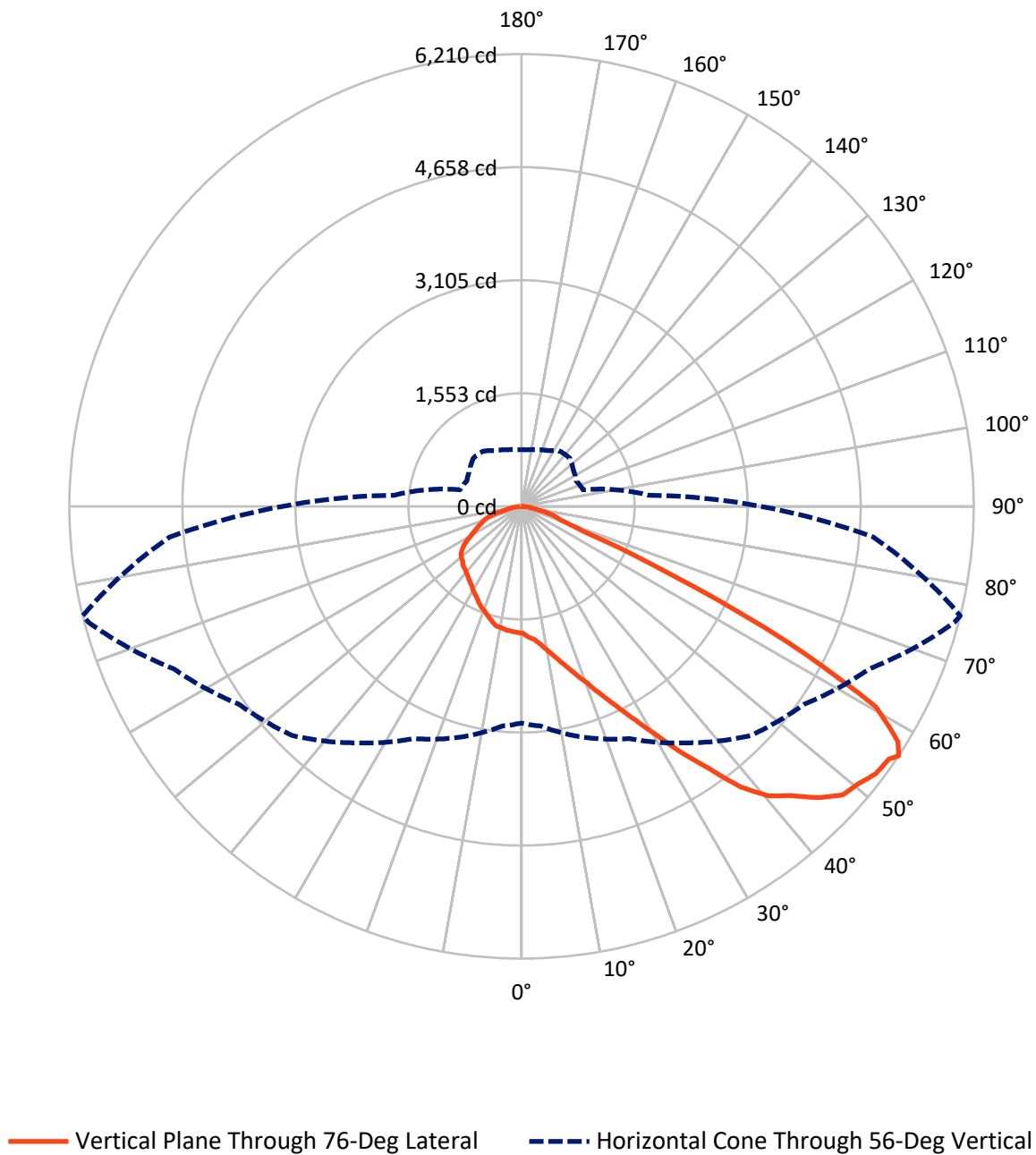


Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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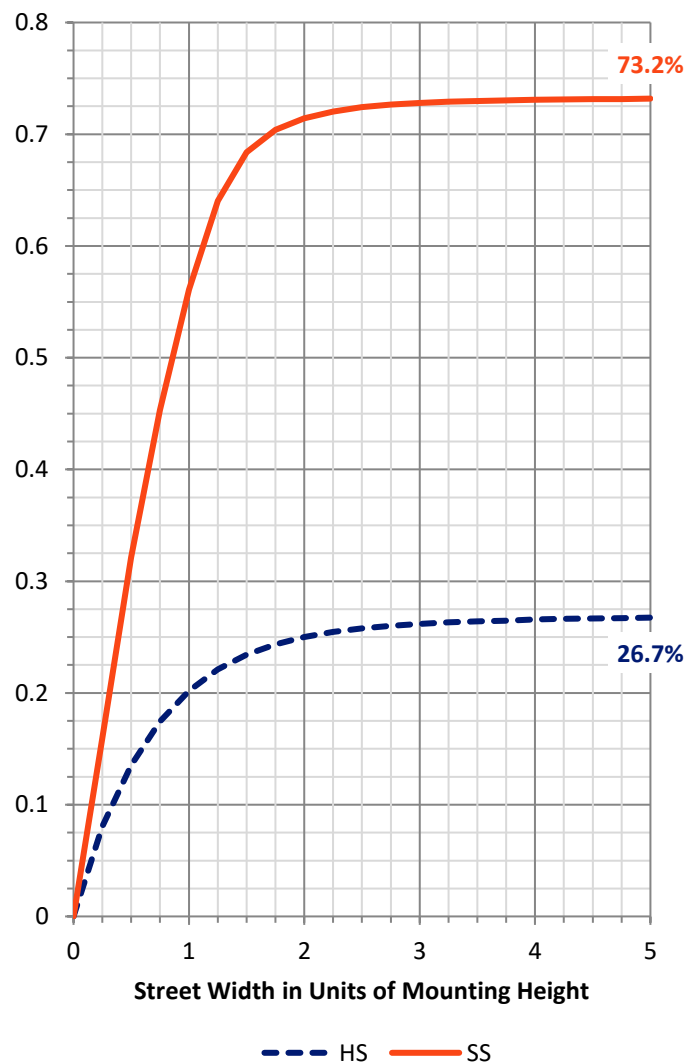
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2446.4	0.0	2446.4
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	6652.6	0.0	6652.6
	% Fixture	73.1	0.0	73.1
Total	Lumens	9099.0	0.0	9099.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.7	1.9
10°-20°	542.4	6.0
20°-30°	948.5	10.4
30°-40°	1485.1	16.3
40°-50°	2160.4	23.7
50°-60°	2374.4	26.1
60°-70°	1059.8	11.6
70°-80°	306.1	3.4
80°-90°	49.7	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°	9099.0	100.0
0°-180°	9099.0	100.0

Coefficient of Utilization



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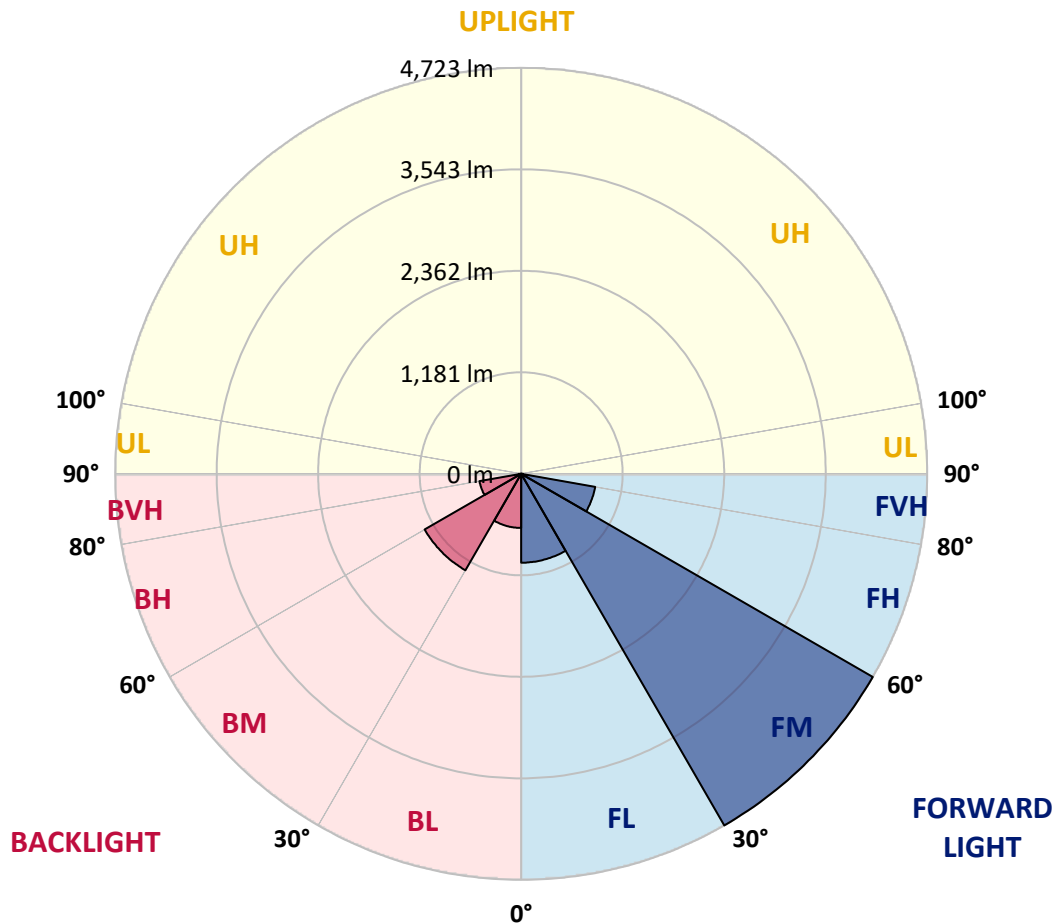
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1034.0	11.4			
FM	(30°-60°)	4723.5	51.9			
FH	(60°-80°)	873.7	9.6			G1/1800
FVH	(80°-90°)	21.4	0.2			G1/100
BL	(0°-30°)	629.5	6.9	B2/1000		
BM	(30°-60°)	1296.4	14.2	B2/2500		
BH	(60°-80°)	492.2	5.4	B1/500		G1/500
BVH	(80°-90°)	28.3	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°	1741.0	1741.0	1741.0	1741.0	1741.0	1741.0	1741.0	1741.0	1741.0	1741.0	1741.0
2.5°	1917.9	1887.2	1884.9	1876.6	1881.3	1860.1	1837.7	1808.2	1777.5	1796.4	1751.6
5°	2052.4	2011.1	2027.6	1999.3	2002.8	1974.5	1928.5	1894.3	1856.6	1834.2	1802.3
7.5°	2099.6	2103.1	2114.9	2110.2	2086.6	2086.6	2055.9	1995.8	1929.7	1916.7	1863.6
10°	2163.2	2164.4	2151.5	2155.0	2188.0	2172.7	2145.6	2119.6	2034.7	2019.3	1925.0
12.5°	2185.7	2164.4	2185.7	2204.5	2243.5	2264.7	2258.8	2239.9	2149.1	2138.5	2000.5
15°	2189.2	2176.2	2193.9	2236.4	2270.6	2360.2	2405.0	2392.1	2271.8	2272.9	2085.4
17.5°	2172.7	2190.4	2197.5	2234.0	2313.0	2396.8	2526.5	2544.2	2445.2	2429.8	2192.7
20°	2195.1	2182.1	2191.6	2224.6	2329.6	2460.5	2630.3	2747.1	2607.9	2597.3	2303.6
22.5°	2281.2	2263.5	2261.1	2282.4	2357.9	2493.5	2740.0	2950.0	2806.1	2812.0	2441.6
25°	2348.4	2357.9	2349.6	2348.4	2395.6	2543.1	2885.1	3191.8	3075.0	3040.8	2604.4
27.5°	2464.0	2486.4	2469.9	2492.3	2481.7	2617.4	2988.9	3459.5	3365.2	3319.2	2751.8
30°	2624.4	2636.2	2620.9	2620.9	2589.1	2721.2	3083.3	3739.1	3700.2	3637.7	2925.2
32.5°	2835.6	2853.3	2822.6	2804.9	2800.2	2875.7	3253.1	4015.1	4081.2	4028.1	3155.2
35°	3115.1	3104.5	3067.9	3051.4	2987.7	3112.8	3505.5	4332.4	4505.8	4411.4	3433.6
37.5°	3361.6	3345.1	3342.8	3250.8	3266.1	3368.7	3720.2	4573.0	4917.4	4890.3	3727.3
40°	3591.6	3607.0	3631.8	3579.9	3556.3	3669.5	3970.3	4757.0	5237.1	5226.5	3953.8
42.5°	3838.2	3824.0	3867.7	3824.0	3788.6	3949.0	4241.6	4884.4	5517.8	5430.5	4190.8
45°	4195.6	4150.7	4166.1	4169.6	4143.7	4202.6	4353.6	4976.4	5714.8	5705.4	4364.2
47.5°	4494.0	4495.2	4469.2	4449.2	4370.1	4429.1	4478.7	5034.2	5941.3	5925.9	4431.5
50°	4604.9	4589.5	4665.0	4708.7	4713.4	4593.1	4576.6	5066.1	6060.4	5993.2	4498.7
52.5°	4206.2	4220.3	4339.5	4599.0	4748.8	4761.7	4691.0	5132.1	6108.8	6094.6	4553.0
55°	3385.2	3453.6	3649.4	3949.0	4304.1	4694.5	4814.8	5200.5	6134.7	6122.9	4793.6
56°	2975.9	3029.0	3283.8	3518.5	3964.4	4450.3	4737.0	5273.6	6154.8	6210.2	4850.2
57.5°	2395.6	2456.9	2639.8	2906.3	3432.4	3985.6	4522.3	5184.0	6076.9	6098.1	4891.5
60°	1498.0	1503.9	1723.3	1899.0	2269.4	2809.6	3451.3	4510.5	5624.0	5593.3	4393.7
62.5°	982.5	983.7	1183.1	1327.0	1495.6	1619.5	2031.1	2991.3	4149.6	4095.3	3128.1
65°	690.0	705.4	859.9	1052.1	1120.5	1055.7	1042.7	1577.0	2317.8	2239.9	1680.8
67.5°	504.8	506.0	642.8	849.3	948.3	803.3	652.3	770.2	917.7	915.3	778.5
70°	333.8	348.0	452.9	634.6	747.8	645.2	533.1	550.8	583.9	583.9	579.1
72.5°	194.6	207.6	277.2	402.2	419.9	403.4	422.3	471.8	493.0	491.9	486.0
75°	110.9	116.8	132.1	167.5	208.8	246.5	310.2	357.4	378.6	391.6	376.3
77.5°	64.9	68.4	77.8	95.5	108.5	133.3	168.7	201.7	230.0	226.5	228.8
80°	34.2	34.2	43.6	56.6	75.5	94.4	112.1	130.9	146.3	149.8	153.3
82.5°	20.1	21.2	28.3	41.3	54.3	67.2	86.1	99.1	113.2	114.4	116.8
85°	10.6	11.8	17.7	27.1	36.6	41.3	42.5	40.1	43.6	41.3	47.2
87.5°	3.5	3.5	5.9	4.7	4.7	5.9	7.1	7.1	9.4	9.4	9.4
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°	1741.0	1741.0	1741.0	1741.0	1741.0	1741.0	1741.0	1741.0	1741.0	1741.0	1741.0
2.5°	1750.4	1750.4	1730.4	1692.6	1686.7	1671.4	1657.2	1656.1	1645.4	1636.0	1631.3
5°	1783.4	1746.9	1717.4	1683.2	1643.1	1624.2	1603.0	1579.4	1569.9	1579.4	1578.2
7.5°	1821.2	1790.5	1702.1	1638.4	1592.4	1573.5	1549.9	1525.1	1527.5	1527.5	1511.0
10°	1857.7	1816.5	1674.9	1593.5	1526.3	1512.1	1499.2	1508.6	1520.4	1522.8	1512.1
12.5°	1919.1	1825.9	1661.9	1548.7	1506.3	1475.6	1483.8	1509.8	1534.6	1527.5	1535.7
15°	1965.1	1834.2	1603.0	1502.7	1449.6	1463.8	1493.3	1511.0	1552.3	1547.5	1555.8
17.5°	2009.9	1838.9	1545.2	1441.4	1419.0	1457.9	1480.3	1531.0	1544.0	1572.3	1582.9
20°	2101.9	1848.3	1486.2	1403.6	1396.6	1441.4	1480.3	1503.9	1532.2	1557.0	1557.0
22.5°	2149.1	1843.6	1447.3	1354.1	1376.5	1404.8	1440.2	1480.3	1480.3	1503.9	1505.1
25°	2208.1	1824.7	1385.9	1330.5	1347.0	1374.1	1414.2	1400.1	1415.4	1415.4	1434.3
27.5°	2275.3	1784.6	1332.9	1288.0	1321.1	1350.6	1356.5	1347.0	1329.3	1327.0	1319.9
30°	2329.6	1735.1	1293.9	1273.9	1301.0	1317.5	1298.7	1278.6	1247.9	1245.6	1229.1
32.5°	2403.9	1673.7	1245.6	1238.5	1269.2	1270.3	1264.4	1233.8	1189.0	1170.1	1151.2
35°	2528.9	1638.4	1209.0	1219.6	1229.1	1225.5	1214.9	1181.9	1137.1	1128.8	1121.7
37.5°	2620.9	1612.4	1171.3	1184.2	1192.5	1197.2	1165.4	1128.8	1130.0	1113.5	1108.8
40°	2724.7	1595.9	1140.6	1146.5	1147.7	1163.0	1124.1	1106.4	1114.6	1104.0	1111.1
42.5°	2858.0	1600.6	1108.8	1104.0	1126.4	1120.5	1101.7	1078.1	1082.8	1051.0	1055.7
45°	2928.8	1632.5	1089.9	1068.6	1093.4	1092.2	1067.5	1045.1	1016.7	955.4	957.8
47.5°	2975.9	1640.7	1045.1	1030.9	1056.9	1072.2	1043.9	992.0	951.9	908.2	897.6
50°	3024.3	1656.1	1023.8	994.3	1005.0	1041.5	1006.1	956.6	917.7	878.7	884.6
52.5°	3066.8	1685.5	982.5	938.9	957.8	997.9	979.0	918.8	876.4	844.5	835.1
55°	3255.5	1751.6	913.0	856.3	901.2	951.9	941.3	868.1	822.1	805.6	803.3
56°	3285.0	1754.0	876.4	828.0	869.3	936.5	923.6	845.7	804.4	778.5	779.7
57.5°	3289.7	1725.6	824.5	802.1	837.5	914.1	897.6	828.0	771.4	747.8	740.7
60°	2894.6	1347.0	759.6	745.5	786.7	845.7	839.8	779.7	716.0	688.8	701.8
62.5°	1973.3	987.3	708.9	706.5	727.8	785.6	770.2	716.0	662.9	645.2	636.9
65°	1148.9	749.0	659.4	649.9	667.6	698.3	708.9	652.3	596.8	585.0	581.5
67.5°	678.2	619.2	595.7	580.3	574.4	593.3	601.6	568.5	513.1	496.6	510.7
70°	567.4	550.8	552.0	526.1	511.9	498.9	491.9	462.4	416.4	395.1	389.2
72.5°	489.5	482.4	477.7	454.1	441.1	411.7	381.0	351.5	317.3	299.6	300.8
75°	373.9	371.5	373.9	362.1	339.7	316.1	287.8	250.1	224.1	201.7	206.4
77.5°	222.9	230.0	233.5	228.8	219.4	198.2	180.5	155.7	130.9	113.2	110.9
80°	153.3	159.2	165.1	159.2	149.8	134.5	115.6	96.7	79.0	69.6	67.2
82.5°	116.8	122.7	126.2	120.3	108.5	92.0	79.0	66.1	51.9	42.5	40.1
85°	42.5	48.4	47.2	56.6	61.3	59.0	50.7	38.9	29.5	21.2	20.1
87.5°	11.8	10.6	11.8	11.8	11.8	10.6	9.4	9.4	9.4	5.9	4.7
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)