

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: P451774

Luminaire Tested: **GALN-SA2C-830-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451774
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2C-830-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11299 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 108
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

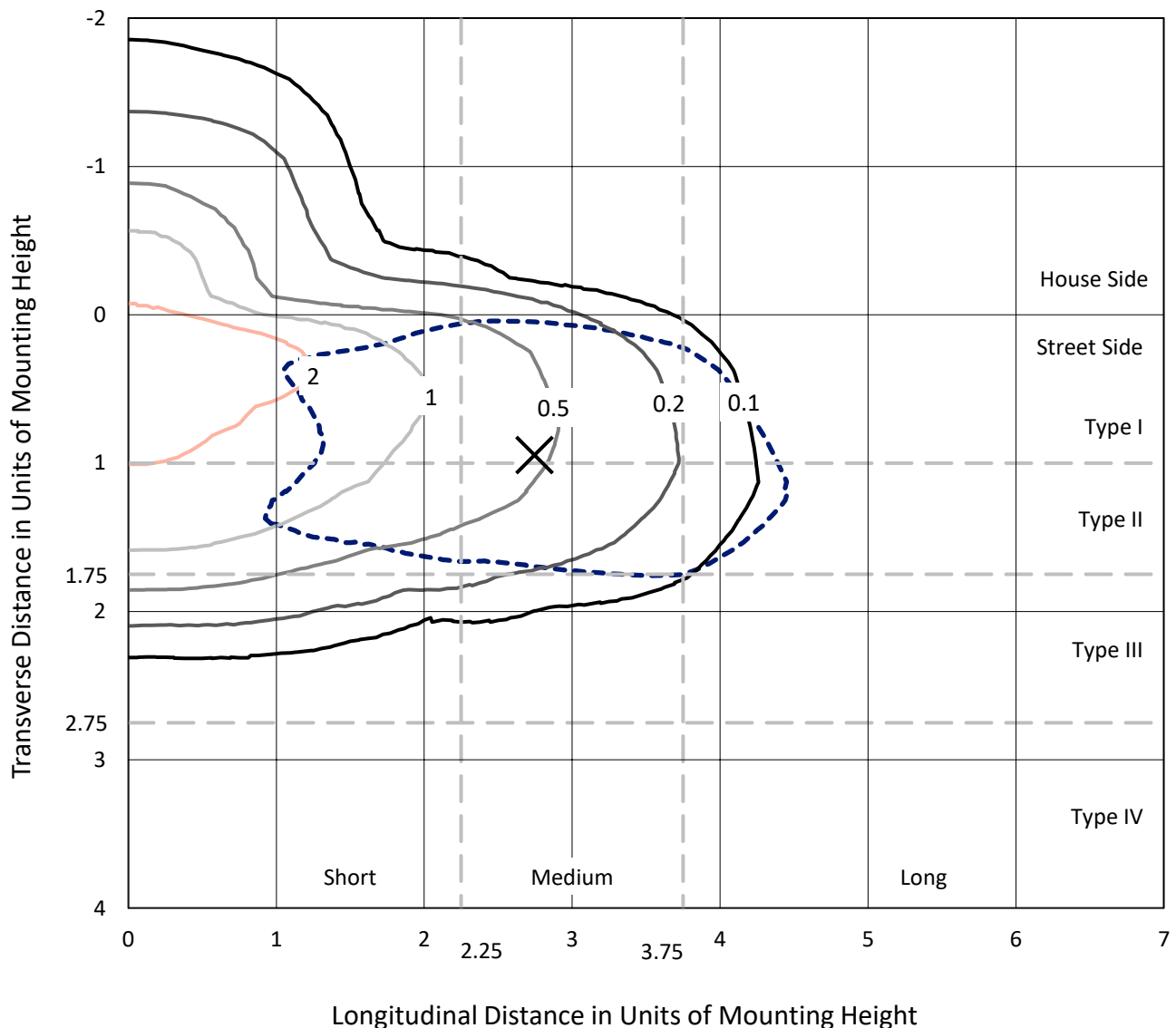


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

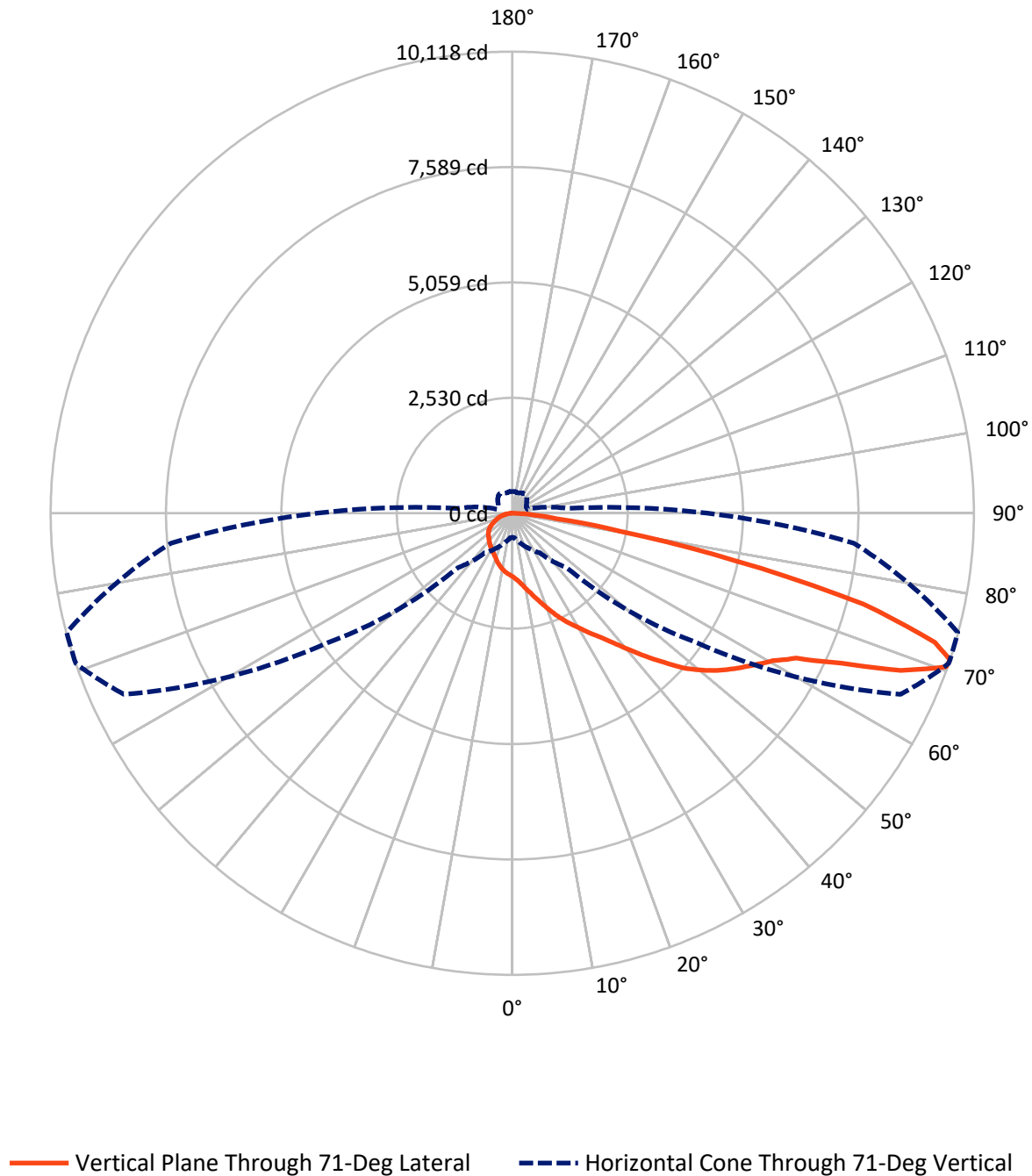


Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2032.1	0.0	2032.1
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	9266.9	0.0	9266.9
	% Fixture	82.0	0.0	82.0
Total	Lumens	11299.0	0.0	11299.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.2	1.2
10°-20°	452.4	4.0
20°-30°	790.6	7.0
30°-40°	1175.8	10.4
40°-50°	1732.5	15.3
50°-60°	2425.5	21.5
60°-70°	2712.8	24.0
70°-80°	1657.1	14.7
80°-90°	213.2	1.9
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°	11299.0	100.0
0°-180°	11299.0	100.0

Coefficient of Utilization



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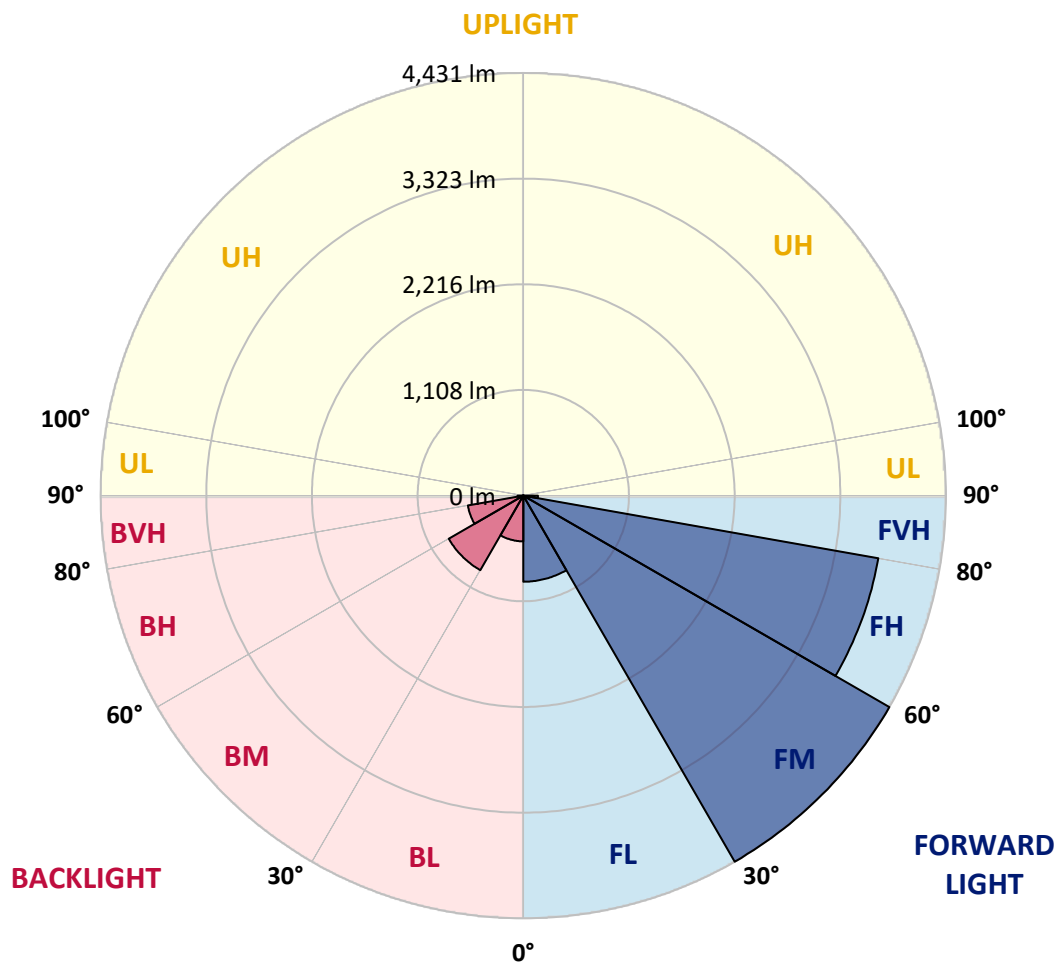
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	902.8	8.0			
FM	(30°-60°)	4431.2	39.2			
FH	(60°-80°)	3779.5	33.4			G2/5000
FVH	(80°-90°)	153.4	1.4			G2/225
BL	(0°-30°)	479.4	4.2	B1/500		
BM	(30°-60°)	902.5	8.0	B1/1000		
BH	(60°-80°)	590.4	5.2	B2/1000		G2/1000
BVH	(80°-90°)	59.8	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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	1386.7	1386.7	1386.7	1386.7	1386.7	1386.7	1386.7	1386.7	1386.7	1386.7	1386.7
2.5°	1539.5	1532.0	1532.7	1522.1	1508.4	1493.5	1472.4	1453.8	1438.9	1430.2	1404.7
5°	1705.9	1698.5	1689.2	1666.2	1656.3	1619.6	1573.0	1530.8	1498.5	1480.5	1429.6
7.5°	1840.7	1838.8	1836.3	1823.3	1797.8	1746.9	1707.2	1633.9	1586.1	1551.9	1465.0
10°	1923.9	1927.0	1928.9	1931.4	1920.8	1894.1	1839.5	1746.9	1686.1	1642.6	1510.9
12.5°	1966.1	1969.2	1979.8	2002.8	2017.1	2014.0	1969.2	1878.6	1794.7	1737.6	1560.0
15°	1992.2	1997.2	2015.8	2046.2	2094.1	2124.5	2102.8	2018.9	1927.0	1859.3	1618.4
17.5°	2020.8	2026.4	2046.9	2090.3	2153.1	2218.9	2242.5	2170.5	2070.5	1989.7	1683.6
20°	2036.9	2044.4	2073.6	2130.7	2204.0	2299.6	2377.9	2340.0	2230.7	2141.3	1758.7
22.5°	2063.0	2069.2	2094.1	2154.9	2242.5	2362.3	2513.3	2505.2	2408.9	2293.4	1841.3
25°	2133.8	2143.7	2156.2	2192.8	2277.3	2426.3	2625.7	2681.5	2581.6	2452.4	1917.1
27.5°	2267.3	2275.4	2274.8	2279.8	2327.6	2481.6	2723.2	2856.1	2753.0	2613.2	1990.4
30°	2419.5	2422.6	2425.1	2413.9	2424.4	2538.1	2812.6	3028.7	2925.6	2778.4	2054.3
32.5°	2604.5	2610.8	2589.6	2561.1	2552.4	2621.9	2886.5	3201.3	3129.9	2946.1	2117.7
35°	2823.1	2839.3	2796.4	2746.1	2710.7	2742.4	2985.8	3377.7	3339.2	3160.4	2201.5
37.5°	3072.8	3092.7	3052.9	2954.2	2903.9	2912.6	3115.6	3595.7	3603.8	3404.4	2326.3
40°	3277.1	3303.2	3304.4	3164.7	3088.3	3098.3	3280.2	3830.4	3923.0	3706.2	2473.5
42.5°	3411.9	3437.3	3464.0	3382.1	3301.9	3358.5	3472.1	4085.0	4281.9	4072.6	2679.1
45°	3559.7	3582.6	3597.5	3560.3	3515.6	3662.1	3703.7	4355.8	4664.5	4481.9	2903.9
47.5°	3731.1	3756.5	3770.8	3735.4	3718.6	3928.5	3953.4	4608.6	5073.1	4879.3	3152.3
50°	3959.6	3978.9	3971.4	3949.0	3945.3	4132.9	4193.1	4845.2	5410.3	5307.2	3410.0
52.5°	4244.0	4267.0	4275.1	4243.4	4229.1	4278.8	4386.2	5060.7	5717.1	5674.8	3685.1
55°	4416.0	4452.7	4575.6	4625.3	4659.5	4467.6	4594.3	5298.5	5992.2	6062.4	3980.7
57.5°	4195.6	4242.8	4517.9	4766.3	5087.4	4939.6	4889.3	5546.9	6267.3	6438.1	4334.7
60°	3657.8	3668.3	4022.9	4480.6	5126.5	5546.3	5504.7	5941.9	6565.4	6816.9	4801.1
62.5°	2537.5	2559.8	2979.0	3709.3	4643.3	5764.9	6551.7	6623.8	6992.6	7383.9	5484.8
65°	1308.5	1279.3	1661.2	2331.3	3500.7	5245.7	7400.0	7877.6	7919.2	8270.7	6447.4
67.5°	805.5	818.5	997.4	1361.3	2069.8	3812.4	7311.2	9409.6	9190.4	9359.3	7341.0
70°	604.9	621.0	744.0	931.5	1261.9	2179.8	5879.8	9781.0	10087.2	10043.7	7613.0
71°	526.0	542.8	670.7	847.7	1060.1	1682.3	4953.8	9392.3	10118.2	10110.8	7510.6
72.5°	448.4	458.9	558.9	717.9	893.6	1179.3	3721.8	8423.5	9686.6	9934.4	7144.8
75°	352.1	360.2	404.9	547.7	703.6	724.1	1997.2	6315.1	7955.8	8427.8	5948.1
77.5°	286.9	292.5	315.5	406.8	542.8	513.0	1047.7	4110.5	4984.3	5459.4	3503.8
80°	227.9	234.1	247.8	275.7	406.8	365.8	499.9	2082.9	2407.7	2402.7	1398.5
82.5°	177.0	178.9	195.0	202.5	278.2	259.6	270.8	881.8	976.9	1009.2	504.9
85°	111.8	117.4	172.6	155.3	166.4	152.1	133.5	350.3	431.6	425.4	201.8
87.5°	34.2	36.0	58.4	65.8	73.9	66.4	49.1	103.1	126.1	136.6	50.3
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°	1386.7	1386.7	1386.7	1386.7	1386.7	1386.7	1386.7	1386.7	1386.7	1386.7	1386.7
2.5°	1394.8	1388.0	1363.8	1343.9	1325.2	1304.8	1287.4	1282.4	1278.1	1276.2	1275.6
5°	1407.8	1387.4	1339.5	1300.4	1269.4	1240.8	1222.8	1214.7	1206.6	1206.6	1209.1
7.5°	1426.5	1389.2	1315.3	1256.9	1217.8	1191.1	1178.1	1176.8	1178.7	1180.6	1181.2
10°	1447.0	1388.0	1279.9	1207.3	1172.5	1160.1	1160.7	1171.2	1181.2	1188.6	1189.9
12.5°	1466.8	1380.5	1238.3	1160.7	1138.3	1140.8	1158.2	1181.8	1201.0	1211.6	1212.2
15°	1489.2	1368.7	1188.0	1116.6	1109.1	1128.4	1160.7	1196.7	1225.9	1243.3	1245.1
17.5°	1507.8	1348.8	1135.2	1073.7	1083.1	1118.5	1163.2	1209.7	1245.1	1266.9	1270.6
20°	1528.9	1323.4	1080.6	1032.8	1059.5	1107.3	1158.2	1208.5	1245.1	1266.3	1271.2
22.5°	1545.7	1287.4	1028.4	999.2	1038.3	1093.6	1141.4	1181.8	1211.6	1222.8	1230.2
25°	1552.5	1242.0	979.3	971.9	1021.6	1071.3	1103.5	1126.5	1135.8	1134.6	1137.7
27.5°	1548.8	1189.9	937.1	950.2	1000.5	1036.5	1052.6	1050.8	1034.0	1018.5	1025.9
30°	1533.3	1127.8	901.7	927.8	973.1	993.0	990.5	966.3	934.6	905.4	907.3
32.5°	1505.3	1060.7	868.8	902.3	934.6	943.3	926.6	894.9	849.6	811.7	806.1
35°	1481.7	996.7	839.6	873.1	896.1	891.8	875.6	834.6	793.7	760.1	754.5
37.5°	1478.0	942.1	811.7	840.2	853.3	847.1	827.2	792.4	777.5	752.1	748.9
40°	1497.9	903.6	783.1	805.5	811.7	806.7	785.0	765.1	778.8	772.5	772.5
42.5°	1551.9	883.1	757.6	770.7	775.6	779.4	763.9	747.1	763.9	735.3	726.0
45°	1637.6	883.7	734.7	736.5	751.4	764.5	753.9	729.1	720.4	663.2	652.1
47.5°	1763.7	904.8	716.0	704.2	730.9	752.7	737.8	701.7	663.2	625.4	618.5
50°	1910.9	942.7	699.3	670.7	703.6	737.8	726.6	684.4	644.6	621.6	617.3
52.5°	2074.2	990.5	678.8	633.4	670.1	730.9	729.1	681.9	627.2	611.7	608.0
55°	2276.0	1037.7	653.3	590.0	640.3	725.3	722.2	661.4	623.5	612.3	611.1
57.5°	2510.8	1106.0	616.7	545.9	606.1	702.4	695.5	649.0	611.1	603.0	602.4
60°	2889.0	1212.2	564.5	505.5	571.3	662.0	670.7	627.8	591.2	589.3	588.7
62.5°	3386.4	1361.3	510.5	463.9	531.0	609.8	634.7	599.3	570.1	579.4	580.7
65°	4073.2	1486.7	454.6	428.5	486.3	559.5	600.5	572.6	546.5	564.5	564.5
67.5°	4521.0	1489.2	403.7	391.9	440.9	517.3	564.5	540.9	516.1	546.5	547.7
70°	4427.8	1304.8	361.4	353.4	396.8	472.0	524.8	506.1	477.6	504.9	494.9
71°	4277.6	1202.3	344.7	338.5	379.4	450.2	506.1	490.6	462.0	480.0	474.5
72.5°	4037.8	1043.9	317.3	318.6	353.4	422.9	480.0	463.9	435.3	445.3	443.4
75°	3413.1	911.7	271.4	277.0	303.7	376.3	427.9	415.5	386.3	386.3	384.4
77.5°	2133.8	637.2	225.4	228.5	257.7	322.3	367.6	357.1	329.1	319.8	317.3
80°	796.1	329.1	176.4	180.1	198.1	254.0	304.3	294.4	265.8	255.2	245.3
82.5°	301.2	165.2	129.8	126.7	145.9	193.8	238.5	226.7	204.3	178.9	171.4
85°	113.6	82.0	79.5	77.0	85.7	114.9	147.8	145.3	121.7	103.7	101.8
87.5°	29.8	26.7	31.1	23.0	24.2	21.7	22.4	9.3	4.3	1.9	1.2
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)