

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: P647790

Luminaire Tested: **GALN-SA2A-835-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647790
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-SA2A-835-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7242 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

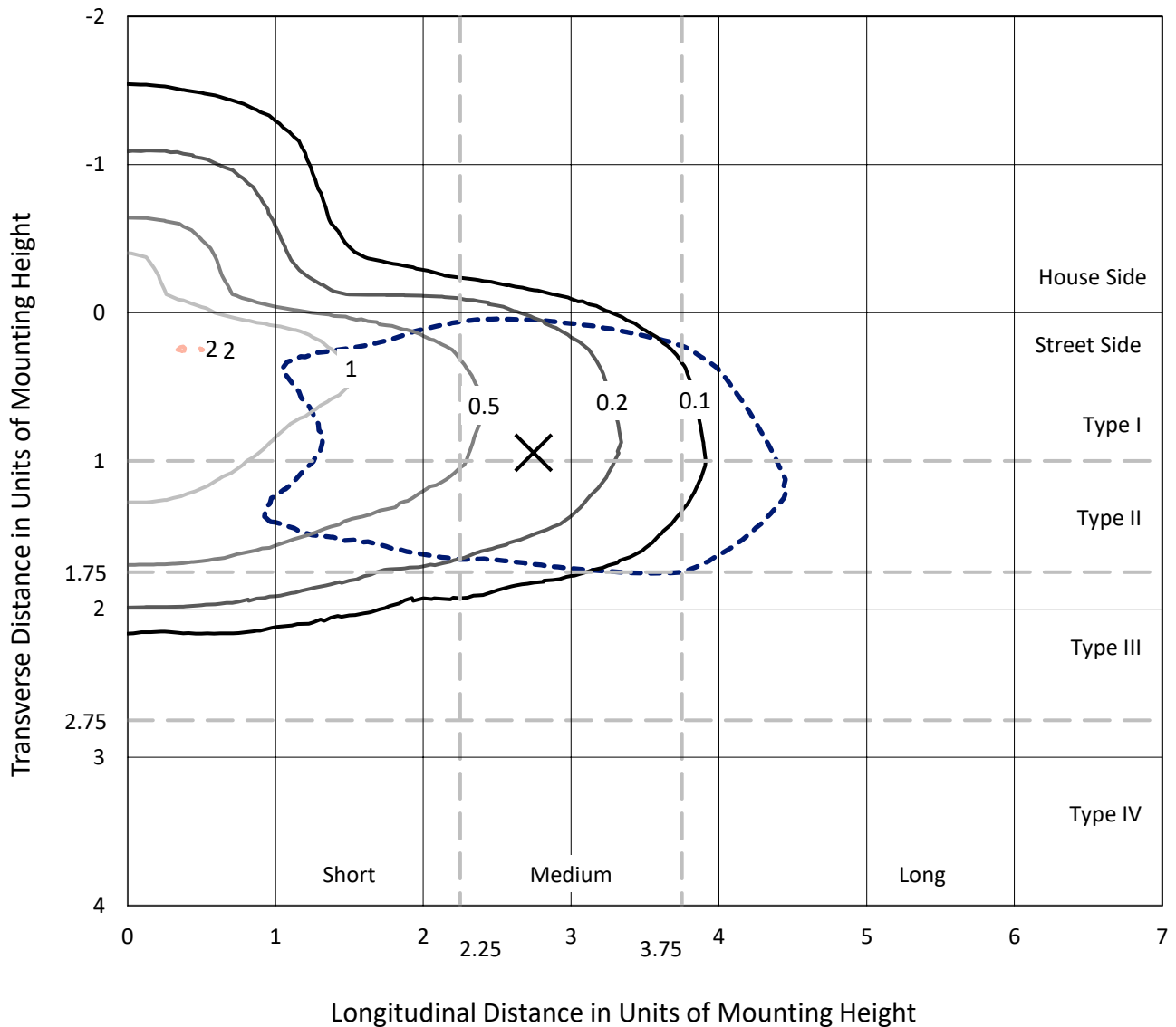
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

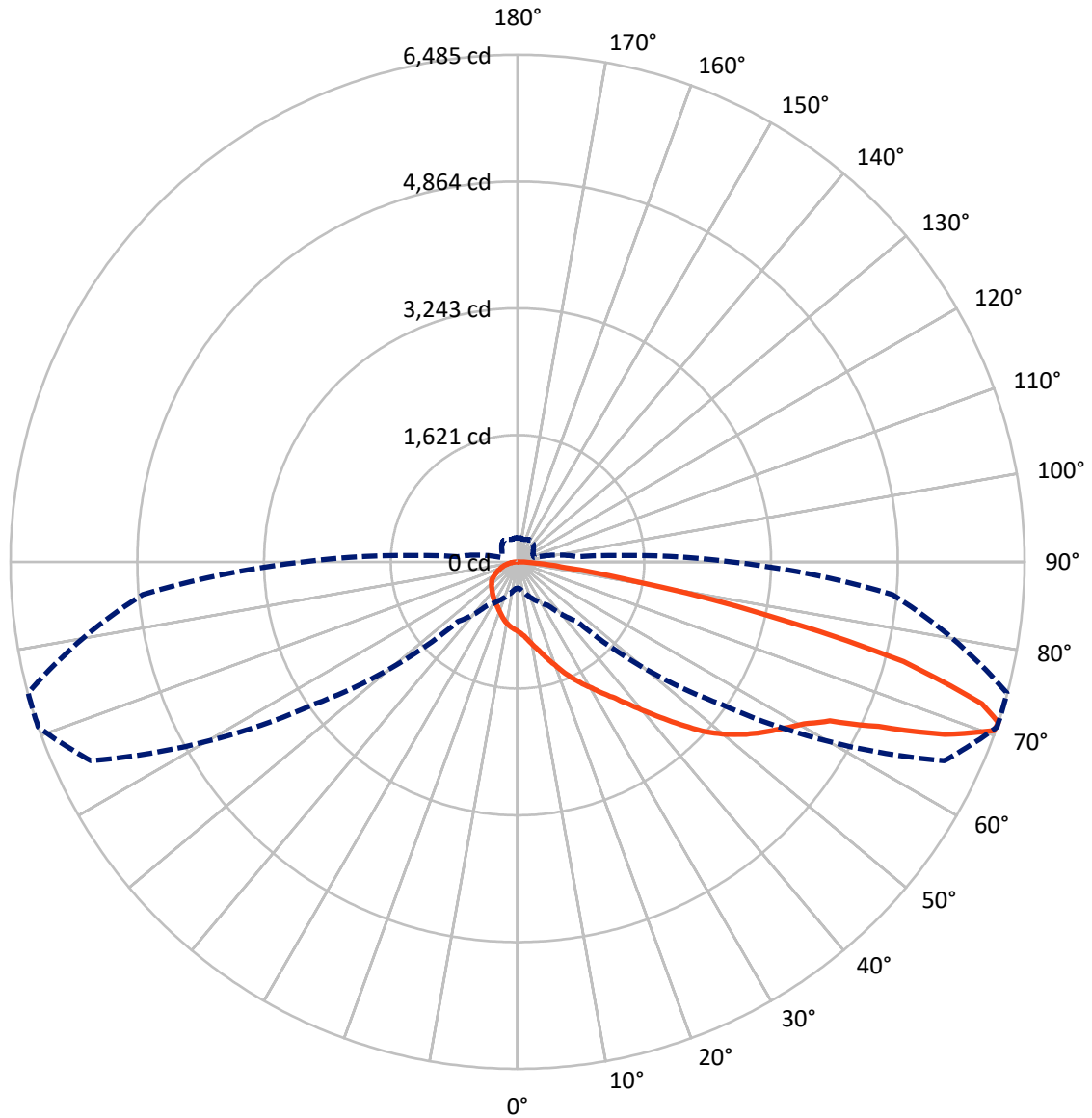
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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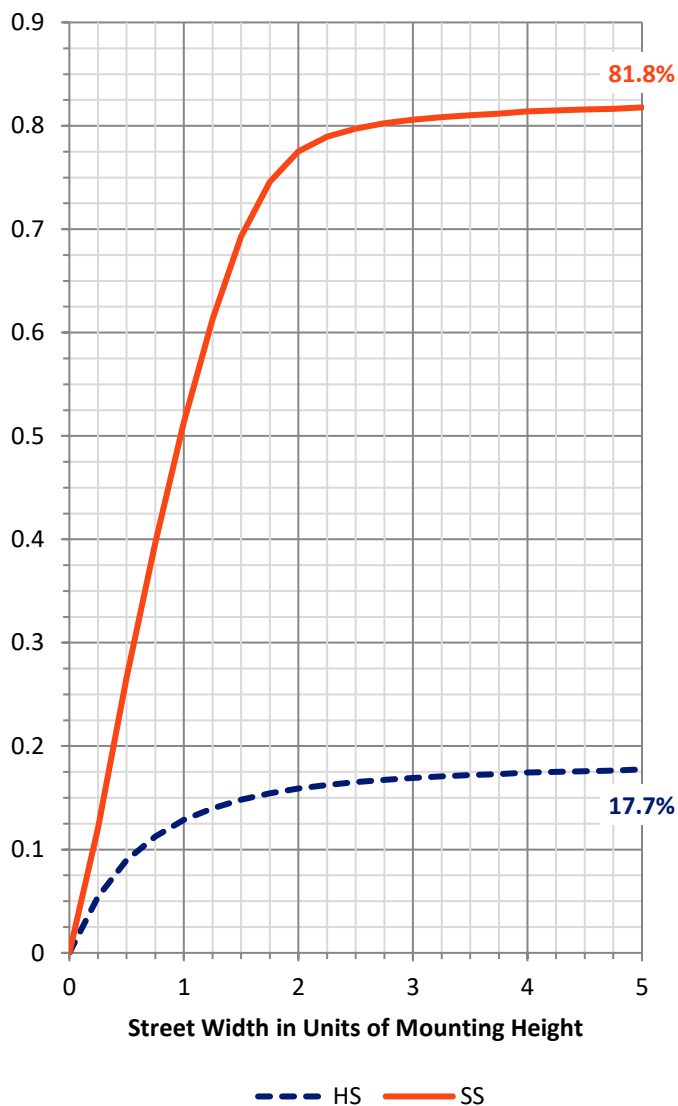
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1302.4	0.0	1302.4
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	5939.5	0.0	5939.5
	% Fixture	82.0	0.0	82.0
Total	Lumens	7242.0	0.0	7242.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.2	1.2
10°-20°	289.9	4.0
20°-30°	506.7	7.0
30°-40°	753.6	10.4
40°-50°	1110.4	15.3
50°-60°	1554.6	21.5
60°-70°	1738.7	24.0
70°-80°	1062.1	14.7
80°-90°	136.6	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°	7242.0	100.0
0°-180°	7242.0	100.0

Coefficient of Utilization

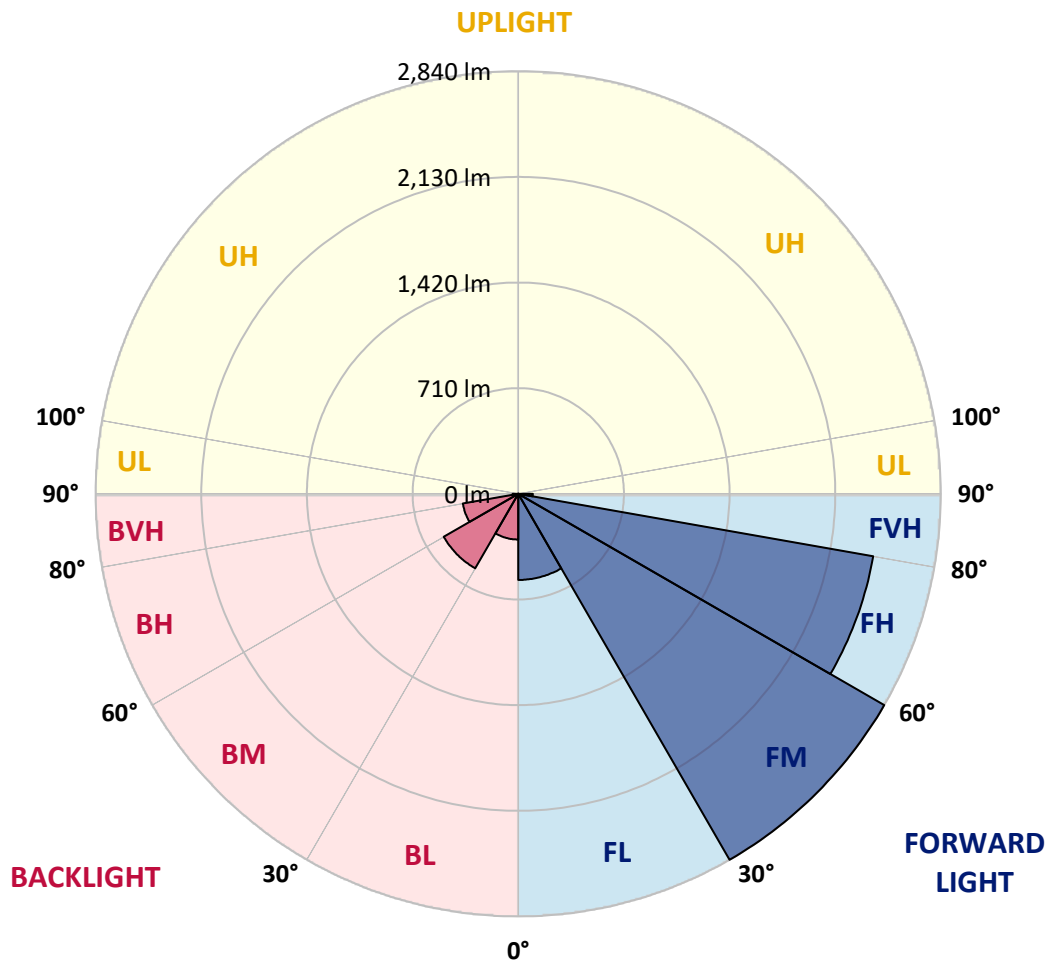


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	578.6	8.0			
FM (30°-60°)	2840.2	39.2			
FH (60°-80°)	2422.4	33.4			G2/5000
FVH (80°-90°)	98.3	1.4			G1/100
BL (0°-30°)	307.2	4.2	B1/500		
BM (30°-60°)	578.5	8.0	B1/1000		
BH (60°-80°)	378.4	5.2	B1/500		G1/500
BVH (80°-90°)	38.3	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	888.8	888.8	888.8	888.8	888.8	888.8	888.8	888.8	888.8	888.8	888.8
2.5°	986.7	982.0	982.4	975.6	966.8	957.3	943.7	931.8	922.2	916.7	900.4
5°	1093.4	1088.6	1082.7	1067.9	1061.6	1038.1	1008.2	981.2	960.4	948.9	916.3
7.5°	1179.7	1178.6	1177.0	1168.6	1152.3	1119.7	1094.2	1047.3	1016.6	994.7	939.0
10°	1233.1	1235.1	1236.3	1237.9	1231.1	1214.0	1179.0	1119.7	1080.7	1052.8	968.4
12.5°	1260.2	1262.2	1268.9	1283.7	1292.8	1290.9	1262.2	1204.0	1150.3	1113.7	999.9
15°	1276.9	1280.0	1292.0	1311.5	1342.1	1361.6	1347.8	1294.0	1235.1	1191.7	1037.2
17.5°	1295.2	1298.8	1311.9	1339.8	1380.0	1422.2	1437.3	1391.2	1327.0	1275.3	1079.1
20°	1305.6	1310.4	1329.1	1365.6	1412.6	1473.9	1524.0	1499.8	1429.8	1372.4	1127.2
22.5°	1322.3	1326.2	1342.1	1381.2	1437.3	1514.1	1610.9	1605.7	1544.0	1469.9	1180.1
25°	1367.7	1374.0	1382.0	1405.5	1459.6	1555.1	1682.9	1718.7	1654.6	1571.9	1228.8
27.5°	1453.2	1458.4	1458.0	1461.2	1491.8	1590.5	1745.4	1830.6	1764.5	1674.9	1275.7
30°	1550.7	1552.8	1554.3	1547.1	1553.9	1626.8	1802.7	1941.2	1875.1	1780.8	1316.7
32.5°	1669.4	1673.3	1659.8	1641.5	1635.9	1680.5	1850.1	2051.9	2006.1	1888.3	1357.3
35°	1809.4	1819.8	1792.4	1760.1	1737.4	1757.7	1913.7	2164.9	2140.3	2025.6	1411.0
37.5°	1969.5	1982.2	1956.7	1893.5	1861.2	1866.8	1997.0	2304.6	2309.8	2182.0	1491.1
40°	2100.4	2117.2	2117.9	2028.4	1979.4	1985.8	2102.4	2455.1	2514.4	2375.5	1585.3
42.5°	2186.8	2203.1	2220.2	2167.7	2116.4	2152.5	2225.4	2618.3	2744.4	2610.3	1717.1
45°	2281.5	2296.2	2305.8	2281.9	2253.2	2347.2	2373.9	2791.8	2989.7	2872.6	1861.2
47.5°	2391.4	2407.7	2416.9	2394.2	2383.5	2518.0	2533.9	2953.8	3251.6	3127.4	2020.5
50°	2537.9	2550.2	2545.5	2531.1	2528.7	2648.9	2687.5	3105.5	3467.7	3401.6	2185.6
52.5°	2720.1	2734.9	2740.0	2719.8	2710.6	2742.5	2811.3	3243.6	3664.3	3637.2	2361.9
55°	2830.4	2853.9	2932.7	2964.5	2986.4	2863.4	2944.6	3396.0	3840.6	3885.6	2551.4
57.5°	2689.1	2719.4	2895.7	3054.9	3260.7	3166.0	3133.7	3555.2	4016.9	4126.4	2778.2
60°	2344.4	2351.2	2578.5	2871.8	3285.8	3554.8	3528.2	3808.4	4208.0	4369.2	3077.2
62.5°	1626.4	1640.7	1909.3	2377.4	2976.1	3695.0	4199.2	4245.4	4481.9	4732.6	3515.4
65°	838.7	820.0	1064.7	1494.2	2243.7	3362.2	4742.9	5049.0	5075.7	5301.0	4132.4
67.5°	516.2	524.6	639.2	872.5	1326.6	2443.5	4686.0	6031.0	5890.5	5998.8	4705.1
70°	387.7	398.0	476.8	597.0	808.8	1397.1	3768.6	6269.0	6465.2	6437.4	4879.5
71°	337.2	347.9	429.9	543.3	679.4	1078.3	3175.1	6019.9	6485.1	6480.3	4813.8
72.5°	287.4	294.2	358.2	460.1	572.8	755.8	2385.4	5398.9	6208.6	6367.4	4579.4
75°	225.7	230.8	259.5	351.1	451.0	464.1	1280.0	4047.6	5099.2	5401.7	3812.3
77.5°	183.9	187.5	202.2	260.7	347.9	328.8	671.5	2634.6	3194.6	3499.1	2245.7
80°	146.1	150.0	158.8	176.7	260.7	234.4	320.4	1335.0	1543.1	1540.0	896.4
82.5°	113.5	114.6	125.0	129.7	178.3	166.4	173.5	565.2	626.1	646.8	323.6
85°	71.6	75.2	110.6	99.5	106.6	97.5	85.6	224.5	276.6	272.6	129.4
87.5°	21.9	23.1	37.4	42.2	47.4	42.6	31.5	66.1	80.8	87.5	32.3
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°	888.8	888.8	888.8	888.8	888.8	888.8	888.8	888.8	888.8	888.8	888.8
2.5°	894.0	889.6	874.1	861.4	849.4	836.2	825.1	821.9	819.2	817.9	817.5
5°	902.3	889.2	858.6	833.5	813.6	795.3	783.7	778.5	773.4	773.4	774.9
7.5°	914.3	890.4	843.1	805.6	780.6	763.4	755.0	754.3	755.4	756.7	757.1
10°	927.4	889.6	820.3	773.8	751.5	743.5	743.9	750.7	757.1	761.9	762.6
12.5°	940.1	884.8	793.6	743.9	729.6	731.2	742.4	757.5	769.8	776.6	777.0
15°	954.5	877.3	761.5	715.7	710.9	723.3	743.9	767.0	785.7	796.9	798.0
17.5°	966.5	864.5	727.6	688.2	694.2	716.8	745.5	775.4	798.0	812.0	814.4
20°	979.9	848.2	692.6	661.9	679.0	709.7	742.4	774.5	798.0	811.6	814.8
22.5°	990.7	825.1	659.1	640.4	665.6	700.9	731.6	757.5	776.6	783.7	788.5
25°	995.1	796.1	627.7	623.0	654.7	686.6	707.3	722.0	728.0	727.2	729.2
27.5°	992.7	762.6	600.6	609.0	641.2	664.3	674.6	673.5	662.7	652.8	657.6
30°	982.7	722.9	577.9	594.7	623.7	636.4	634.9	619.4	599.1	580.4	581.5
32.5°	964.8	679.9	556.9	578.3	599.1	604.6	593.8	573.5	544.5	520.2	516.6
35°	949.7	638.8	538.2	559.6	574.3	571.6	561.3	534.9	508.7	487.2	483.6
37.5°	947.4	603.8	520.2	538.5	546.9	542.9	530.2	507.9	498.3	482.0	480.1
40°	960.0	579.1	501.9	516.2	520.2	517.0	503.1	490.4	499.2	495.2	495.2
42.5°	994.7	566.0	485.6	494.0	497.1	499.6	489.6	478.8	489.6	471.3	465.3
45°	1049.6	566.4	470.9	472.1	481.6	490.0	483.2	467.3	461.7	425.1	418.0
47.5°	1130.4	580.0	458.9	451.4	468.5	482.4	472.9	449.8	425.1	400.8	396.4
50°	1224.8	604.2	448.2	429.9	451.0	472.9	465.7	438.6	413.2	398.5	395.6
52.5°	1329.5	634.9	435.0	406.0	429.5	468.5	467.3	437.1	402.0	392.0	389.7
55°	1458.8	665.1	418.7	378.1	410.4	464.9	462.9	423.9	399.6	392.4	391.7
57.5°	1609.2	708.9	395.3	349.8	388.4	450.1	445.8	415.9	391.7	386.5	386.1
60°	1851.6	777.0	361.8	324.0	366.2	424.3	429.9	402.4	378.9	377.7	377.3
62.5°	2170.5	872.5	327.2	297.3	340.3	390.9	406.8	384.1	365.4	371.4	372.2
65°	2610.7	952.9	291.4	274.7	311.6	358.6	384.9	367.0	350.2	361.8	361.8
67.5°	2897.6	954.5	258.7	251.2	282.6	331.6	361.8	346.7	330.7	350.2	351.1
70°	2838.0	836.2	231.7	226.4	254.3	302.5	336.4	324.4	306.1	323.6	317.3
71°	2741.7	770.6	220.9	216.9	243.2	288.5	324.4	314.5	296.1	307.6	304.1
72.5°	2588.0	669.1	203.4	204.2	226.4	271.1	307.6	297.3	279.0	285.4	284.2
75°	2187.6	584.3	173.9	177.5	194.7	241.2	274.2	266.3	247.6	247.6	246.4
77.5°	1367.7	408.4	144.5	146.5	165.2	206.6	235.6	228.9	210.9	205.0	203.4
80°	510.3	210.9	113.1	115.4	127.0	162.8	195.0	188.7	170.4	163.6	157.2
82.5°	193.0	105.9	83.2	81.2	93.6	124.2	152.8	145.2	130.9	114.6	109.9
85°	72.8	52.5	51.0	49.3	55.0	73.6	94.7	93.2	78.0	66.5	65.3
87.5°	19.1	17.1	19.9	14.7	15.5	13.9	14.3	6.0	2.8	1.2	0.8
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)