

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: P451049

Luminaire Tested: **GALN-SA1D-827-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451049
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-SA1D-827-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5787 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

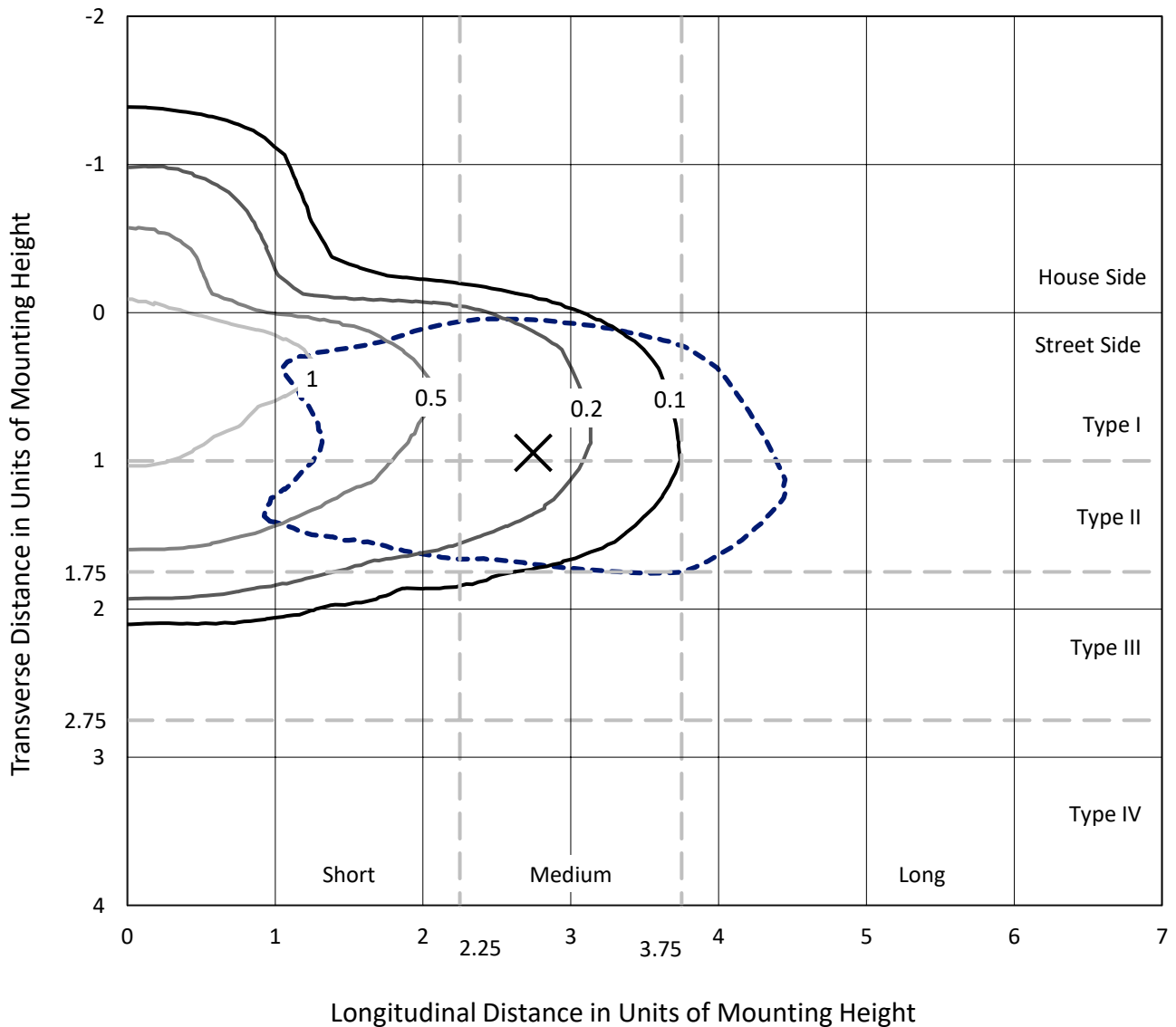
Input Watts (W): 65
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

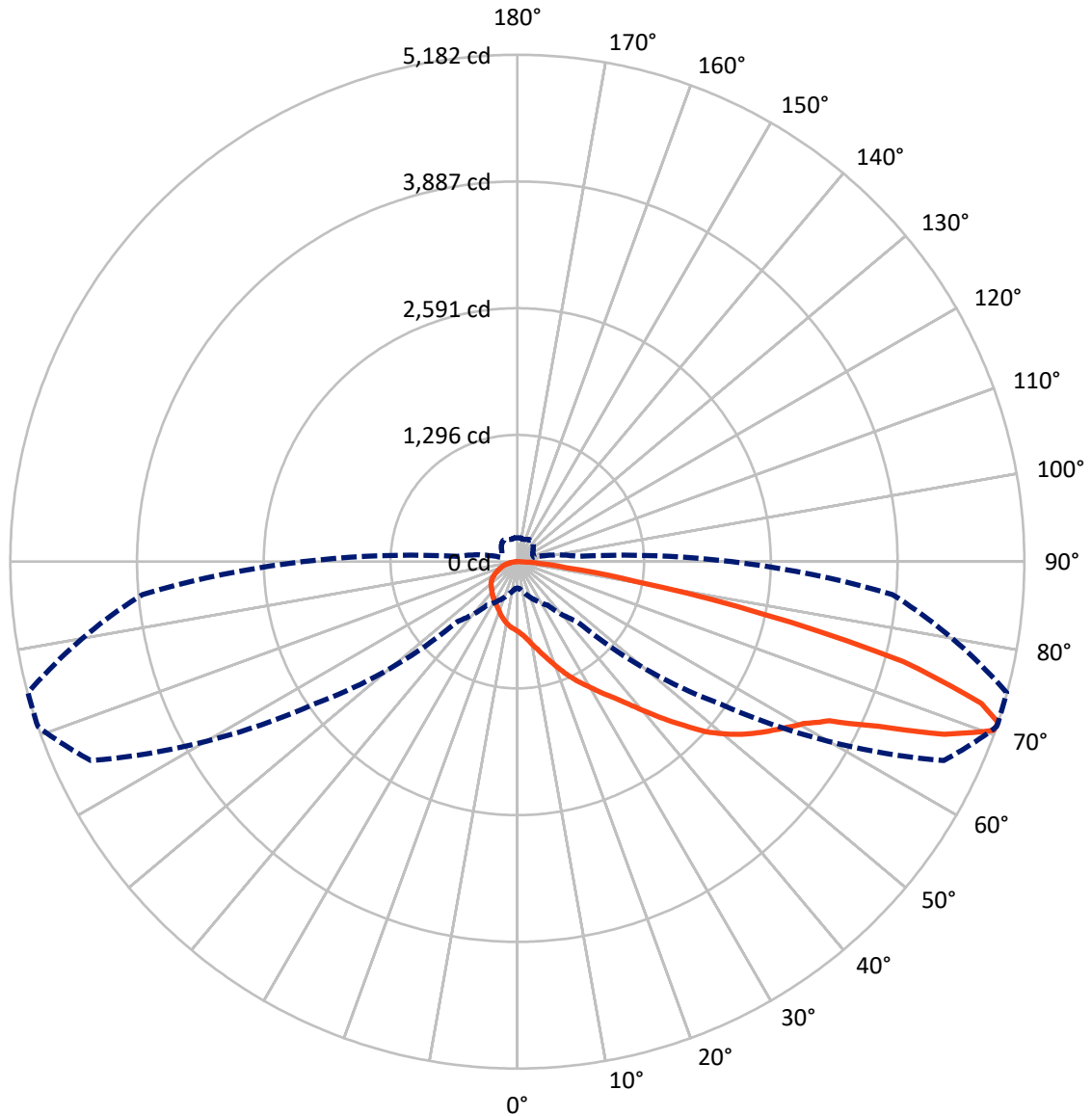
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 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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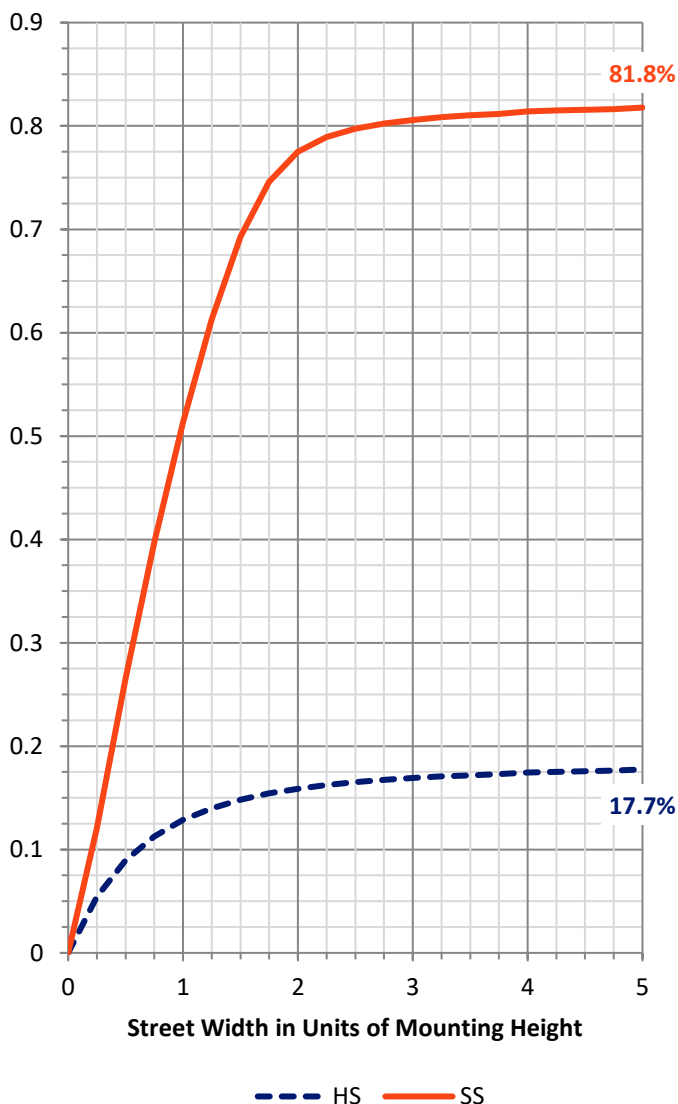
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1040.8	0.0	1040.8
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	4746.2	0.0	4746.2
	% Fixture	82.0	0.0	82.0
Total	Lumens	5787.0	0.0	5787.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.3	1.2
10°-20°	231.7	4.0
20°-30°	404.9	7.0
30°-40°	602.2	10.4
40°-50°	887.3	15.3
50°-60°	1242.2	21.5
60°-70°	1389.4	24.0
70°-80°	848.7	14.7
80°-90°	109.2	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°	5787.0	100.0
0°-180°	5787.0	100.0

Coefficient of Utilization



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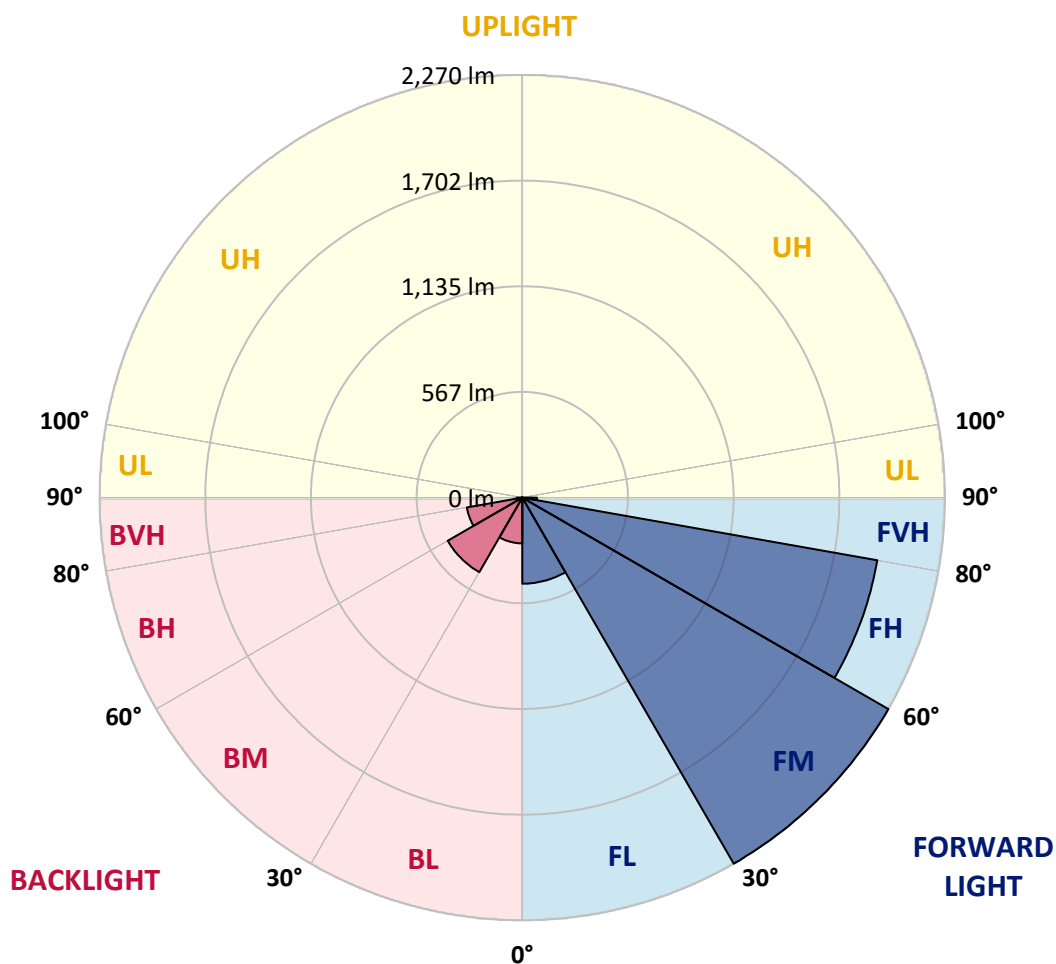
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	462.4	8.0			
FM	(30°-60°)	2269.5	39.2			
FH	(60°-80°)	1935.7	33.4			G2/5000
FVH	(80°-90°)	78.6	1.4			G1/100
BL	(0°-30°)	245.5	4.2	B1/500		
BM	(30°-60°)	462.2	8.0	B1/1000		
BH	(60°-80°)	302.4	5.2	B1/500		G1/500
BVH	(80°-90°)	30.6	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°	710.2	710.2	710.2	710.2	710.2	710.2	710.2	710.2	710.2	710.2	710.2
2.5°	788.5	784.7	785.0	779.6	772.6	764.9	754.1	744.6	737.0	732.5	719.5
5°	873.7	869.9	865.1	853.4	848.3	829.5	805.7	784.0	767.5	758.3	732.2
7.5°	942.7	941.8	940.5	933.8	920.8	894.7	874.4	836.8	812.3	794.8	750.3
10°	985.4	987.0	987.9	989.2	983.8	970.1	942.1	894.7	863.5	841.3	773.9
12.5°	1007.0	1008.6	1014.0	1025.8	1033.1	1031.5	1008.6	962.1	919.2	889.9	799.0
15°	1020.4	1022.9	1032.4	1048.0	1072.5	1088.1	1077.0	1034.0	987.0	952.3	828.9
17.5°	1035.0	1037.8	1048.3	1070.6	1102.7	1136.4	1148.5	1111.6	1060.4	1019.1	862.3
20°	1043.3	1047.1	1062.0	1091.3	1128.8	1177.8	1217.9	1198.5	1142.5	1096.7	900.8
22.5°	1056.6	1059.8	1072.5	1103.7	1148.5	1209.9	1287.2	1283.1	1233.8	1174.6	943.1
25°	1092.9	1098.0	1104.3	1123.1	1166.3	1242.7	1344.8	1373.4	1322.2	1256.0	981.9
27.5°	1161.3	1165.4	1165.1	1167.6	1192.1	1271.0	1394.7	1462.8	1410.0	1338.4	1019.4
30°	1239.2	1240.8	1242.0	1236.3	1241.7	1299.9	1440.5	1551.2	1498.4	1423.0	1052.2
32.5°	1334.0	1337.1	1326.3	1311.7	1307.2	1342.9	1478.4	1639.6	1603.0	1508.9	1084.6
35°	1445.9	1454.2	1432.2	1406.5	1388.4	1404.6	1529.3	1730.0	1710.2	1618.6	1127.5
37.5°	1573.8	1584.0	1563.6	1513.0	1487.3	1491.7	1595.7	1841.6	1845.7	1743.6	1191.5
40°	1678.4	1691.8	1692.4	1620.9	1581.7	1586.8	1680.0	1961.8	2009.2	1898.2	1266.9
42.5°	1747.5	1760.5	1774.2	1732.2	1691.2	1720.1	1778.3	2092.2	2193.1	2085.9	1372.1
45°	1823.2	1834.9	1842.6	1823.5	1800.6	1875.6	1896.9	2230.9	2389.0	2295.5	1487.3
47.5°	1910.9	1924.0	1931.3	1913.2	1904.6	2012.1	2024.8	2360.4	2598.3	2499.0	1614.5
50°	2028.0	2037.8	2034.0	2022.6	2020.7	2116.7	2147.6	2481.5	2771.0	2718.2	1746.5
52.5°	2173.7	2185.4	2189.6	2173.3	2166.0	2191.5	2246.5	2591.9	2928.1	2906.5	1887.4
55°	2261.8	2280.5	2343.5	2369.0	2386.4	2288.2	2353.0	2713.7	3069.0	3105.0	2038.8
57.5°	2148.9	2173.0	2313.9	2441.2	2605.6	2529.9	2504.1	2841.0	3209.9	3297.4	2220.1
60°	1873.4	1878.8	2060.4	2294.8	2625.6	2840.6	2819.3	3043.3	3362.6	3491.4	2459.0
62.5°	1299.6	1311.1	1525.8	1899.8	2378.2	2952.6	3355.6	3392.5	3581.4	3781.8	2809.2
65°	670.2	655.2	850.8	1194.0	1792.9	2686.7	3790.1	4034.7	4056.0	4236.0	3302.2
67.5°	412.5	419.2	510.8	697.2	1060.1	1952.6	3744.6	4819.3	4707.1	4793.6	3759.9
70°	309.8	318.1	381.0	477.1	646.3	1116.4	3011.4	5009.5	5166.3	5144.1	3899.2
71°	269.4	278.0	343.5	434.2	542.9	861.6	2537.2	4810.4	5182.2	5178.4	3846.7
72.5°	229.6	235.1	286.3	367.7	457.7	604.0	1906.2	4314.2	4961.2	5088.1	3659.3
75°	180.3	184.5	207.4	280.5	360.4	370.9	1022.9	3234.4	4074.7	4316.5	3046.4
77.5°	146.9	149.8	161.6	208.3	278.0	262.7	536.6	2105.3	2552.8	2796.1	1794.5
80°	116.7	119.9	126.9	141.2	208.3	187.3	256.0	1066.8	1233.1	1230.6	716.3
82.5°	90.6	91.6	99.9	103.7	142.5	133.0	138.7	451.7	500.3	516.9	258.6
85°	57.3	60.1	88.4	79.5	85.2	77.9	68.4	179.4	221.1	217.9	103.4
87.5°	17.5	18.4	29.9	33.7	37.8	34.0	25.1	52.8	64.6	70.0	25.8
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°	710.2	710.2	710.2	710.2	710.2	710.2	710.2	710.2	710.2	710.2	710.2
2.5°	714.4	710.9	698.5	688.3	678.8	668.3	659.3	656.8	654.6	653.6	653.3
5°	721.1	710.6	686.1	666.0	650.1	635.5	626.3	622.1	618.0	618.0	619.3
7.5°	730.6	711.5	673.7	643.8	623.7	610.0	603.4	602.7	603.7	604.6	605.0
10°	741.1	710.9	655.5	618.3	600.5	594.1	594.5	599.9	605.0	608.8	609.4
12.5°	751.3	707.1	634.2	594.5	583.0	584.3	593.2	605.3	615.1	620.5	620.9
15°	762.7	701.0	608.5	571.9	568.1	577.9	594.5	612.9	627.9	636.8	637.7
17.5°	772.3	690.8	581.4	549.9	554.7	572.8	595.7	619.6	637.7	648.9	650.8
20°	783.1	677.8	553.4	528.9	542.6	567.1	593.2	619.0	637.7	648.5	651.1
22.5°	791.7	659.3	526.7	511.8	531.8	560.1	584.6	605.3	620.5	626.3	630.1
25°	795.2	636.1	501.6	497.8	523.2	548.7	565.2	577.0	581.7	581.1	582.7
27.5°	793.3	609.4	480.0	486.6	512.4	530.9	539.1	538.2	529.6	521.6	525.4
30°	785.3	577.6	461.8	475.2	498.4	508.6	507.3	494.9	478.7	463.7	464.7
32.5°	771.0	543.3	445.0	462.1	478.7	483.1	474.6	458.3	435.1	415.7	412.8
35°	758.9	510.5	430.0	447.2	459.0	456.7	448.5	427.5	406.5	389.3	386.4
37.5°	757.0	482.5	415.7	430.3	437.0	433.8	423.7	405.9	398.2	385.2	383.6
40°	767.2	462.8	401.1	412.5	415.7	413.2	402.0	391.9	398.9	395.7	395.7
42.5°	794.8	452.3	388.0	394.7	397.3	399.2	391.2	382.6	391.2	376.6	371.8
45°	838.7	452.6	376.3	377.2	384.9	391.5	386.1	373.4	369.0	339.7	334.0
47.5°	903.3	463.4	366.7	360.7	374.4	385.5	377.9	359.4	339.7	320.3	316.8
50°	978.7	482.8	358.1	343.5	360.4	377.9	372.1	350.5	330.2	318.4	316.2
52.5°	1062.3	507.3	347.6	324.4	343.2	374.4	373.4	349.2	321.2	313.3	311.4
55°	1165.7	531.5	334.6	302.2	327.9	371.5	369.9	338.7	319.3	313.6	313.0
57.5°	1285.9	566.5	315.8	279.6	310.4	359.7	356.2	332.4	313.0	308.8	308.5
60°	1479.6	620.9	289.1	258.9	292.6	339.1	343.5	321.6	302.8	301.8	301.5
62.5°	1734.4	697.2	261.4	237.6	271.9	312.3	325.1	306.9	292.0	296.8	297.4
65°	2086.2	761.4	232.8	219.5	249.0	286.6	307.6	293.3	279.9	289.1	289.1
67.5°	2315.5	762.7	206.7	200.7	225.8	264.9	289.1	277.0	264.3	279.9	280.5
70°	2267.8	668.3	185.1	181.0	203.2	241.7	268.8	259.2	244.6	258.6	253.5
71°	2190.8	615.8	176.5	173.3	194.3	230.6	259.2	251.3	236.6	245.9	243.0
72.5°	2068.1	534.7	162.5	163.2	181.0	216.6	245.9	237.6	223.0	228.1	227.1
75°	1748.1	466.9	139.0	141.9	155.5	192.7	219.1	212.8	197.8	197.8	196.9
77.5°	1092.9	326.3	115.5	117.0	132.0	165.1	188.3	182.9	168.6	163.8	162.5
80°	407.8	168.6	90.3	92.2	101.5	130.1	155.9	150.8	136.1	130.7	125.6
82.5°	154.3	84.6	66.5	64.9	74.7	99.2	122.1	116.1	104.6	91.6	87.8
85°	58.2	42.0	40.7	39.4	43.9	58.8	75.7	74.4	62.3	53.1	52.2
87.5°	15.3	13.7	15.9	11.8	12.4	11.1	11.5	4.8	2.2	1.0	0.6
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)