

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: P650705

Luminaire Tested: **GALN-SA1C-840-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650705
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-SA1C-840-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6016.5 lumens
Efficiency: N/A
Efficacy: 105.6 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

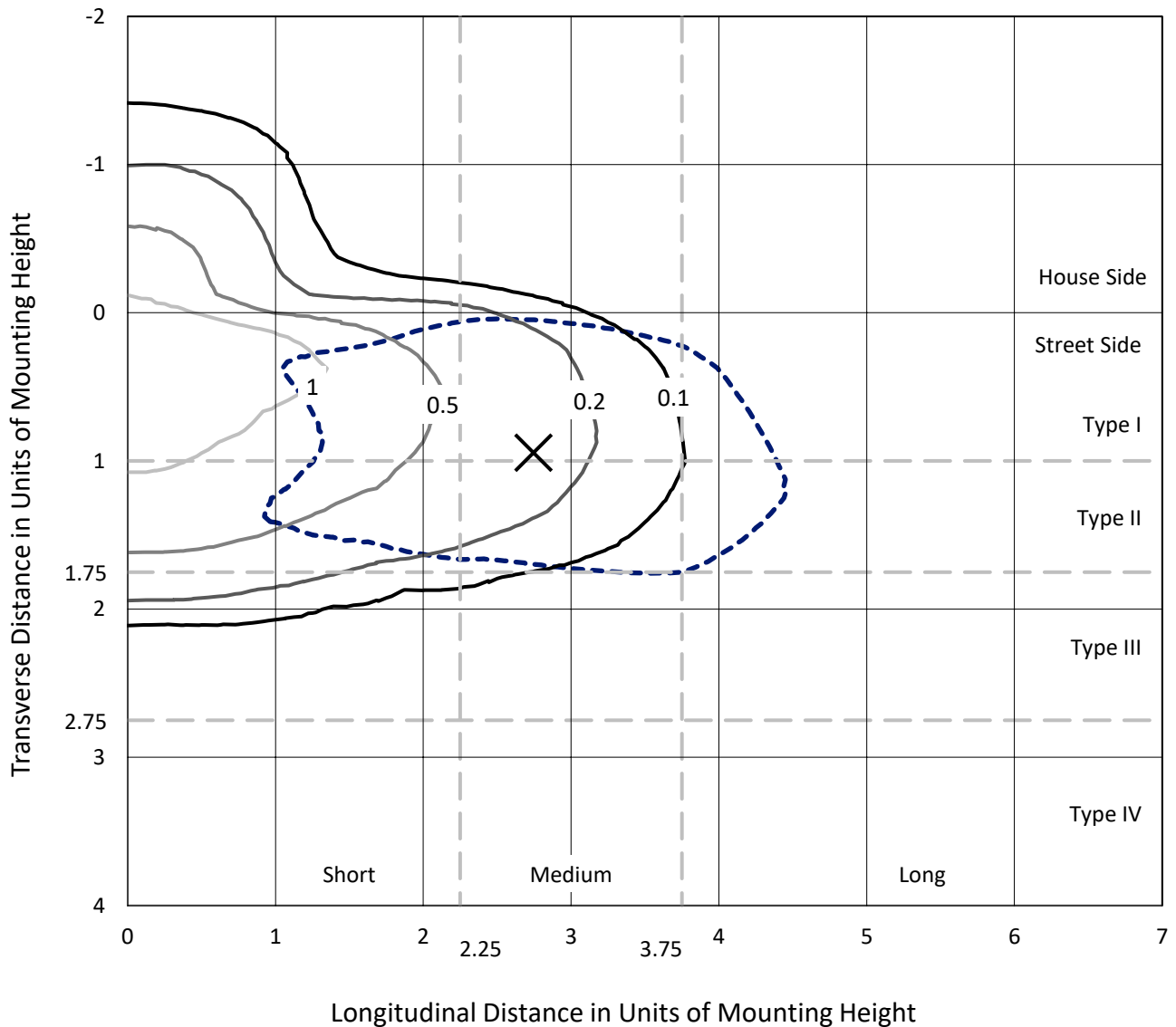
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

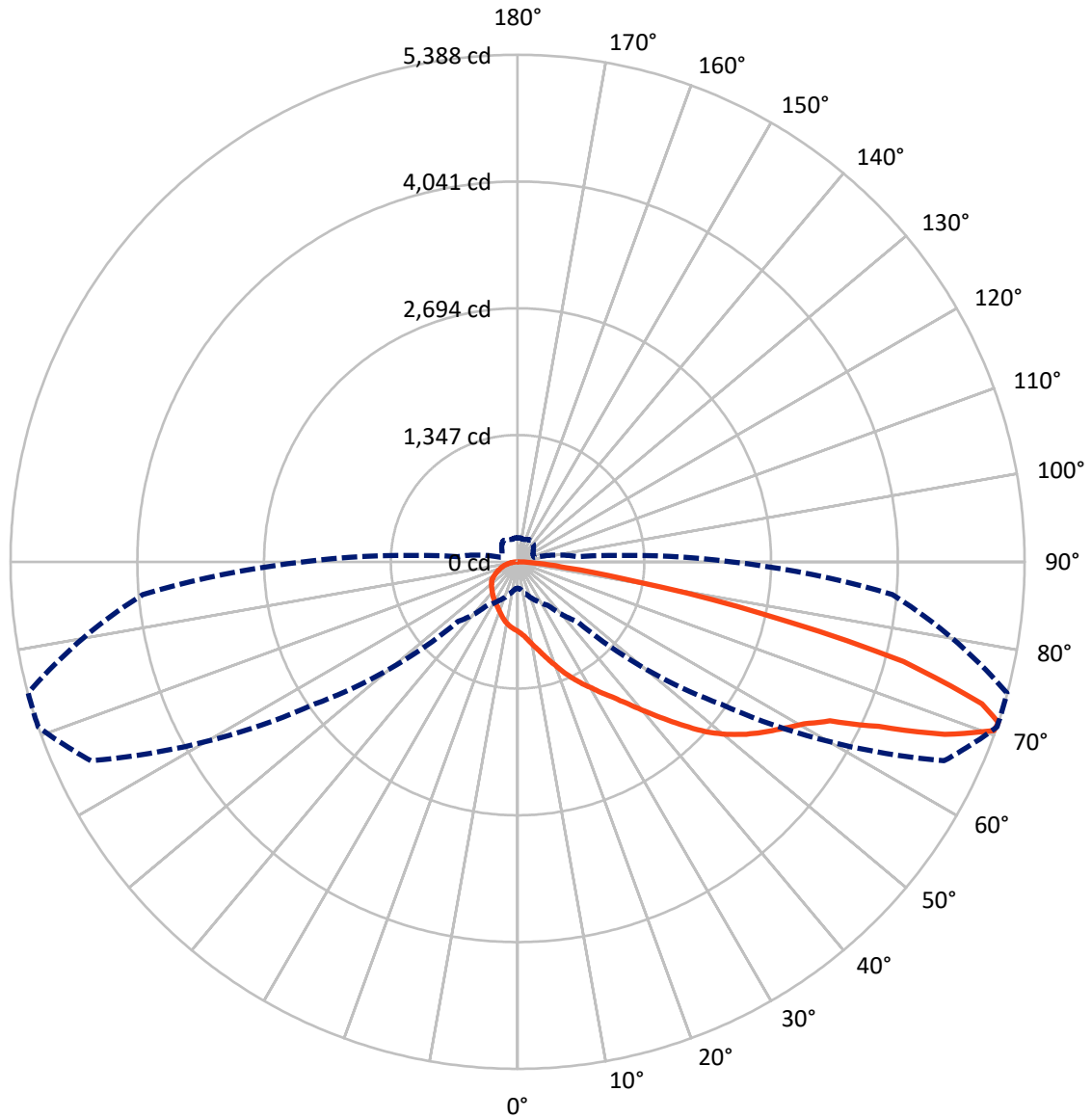
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 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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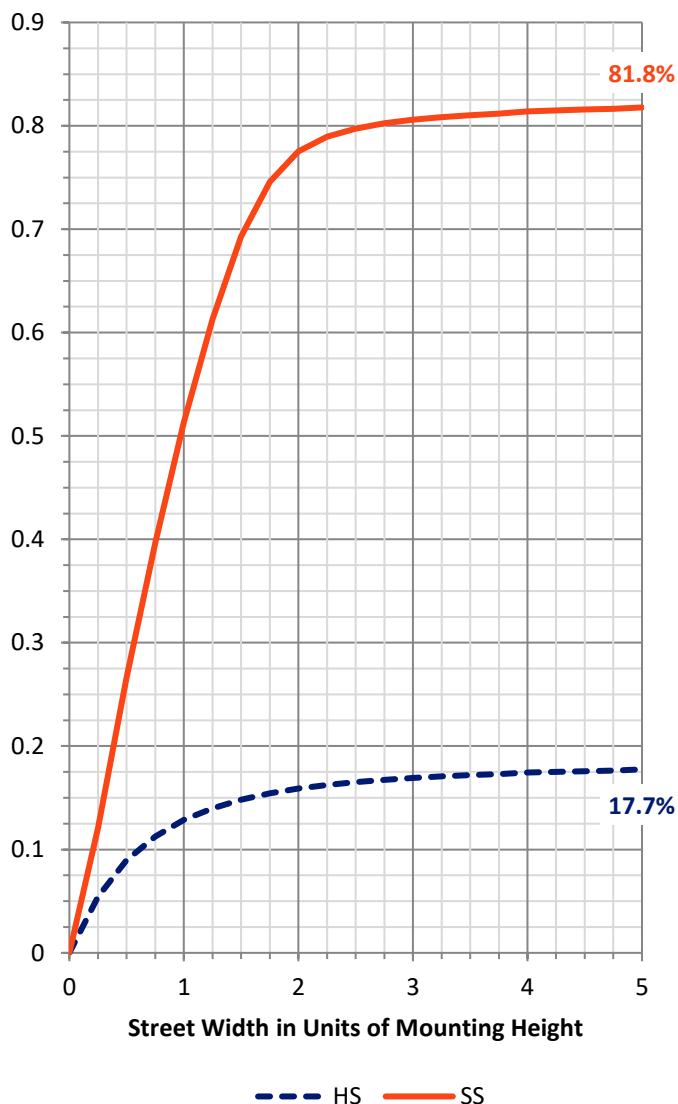
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1082.1	0.0	1082.1
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	4934.5	0.0	4934.5
	% Fixture	82.0	0.0	82.0
Total	Lumens	6016.5	0.0	6016.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.1	1.2
10°-20°	240.9	4.0
20°-30°	421.0	7.0
30°-40°	626.1	10.4
40°-50°	922.5	15.3
50°-60°	1291.5	21.5
60°-70°	1444.5	24.0
70°-80°	882.4	14.7
80°-90°	113.5	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°	6016.5	100.0
0°-180°	6016.5	100.0

Coefficient of Utilization

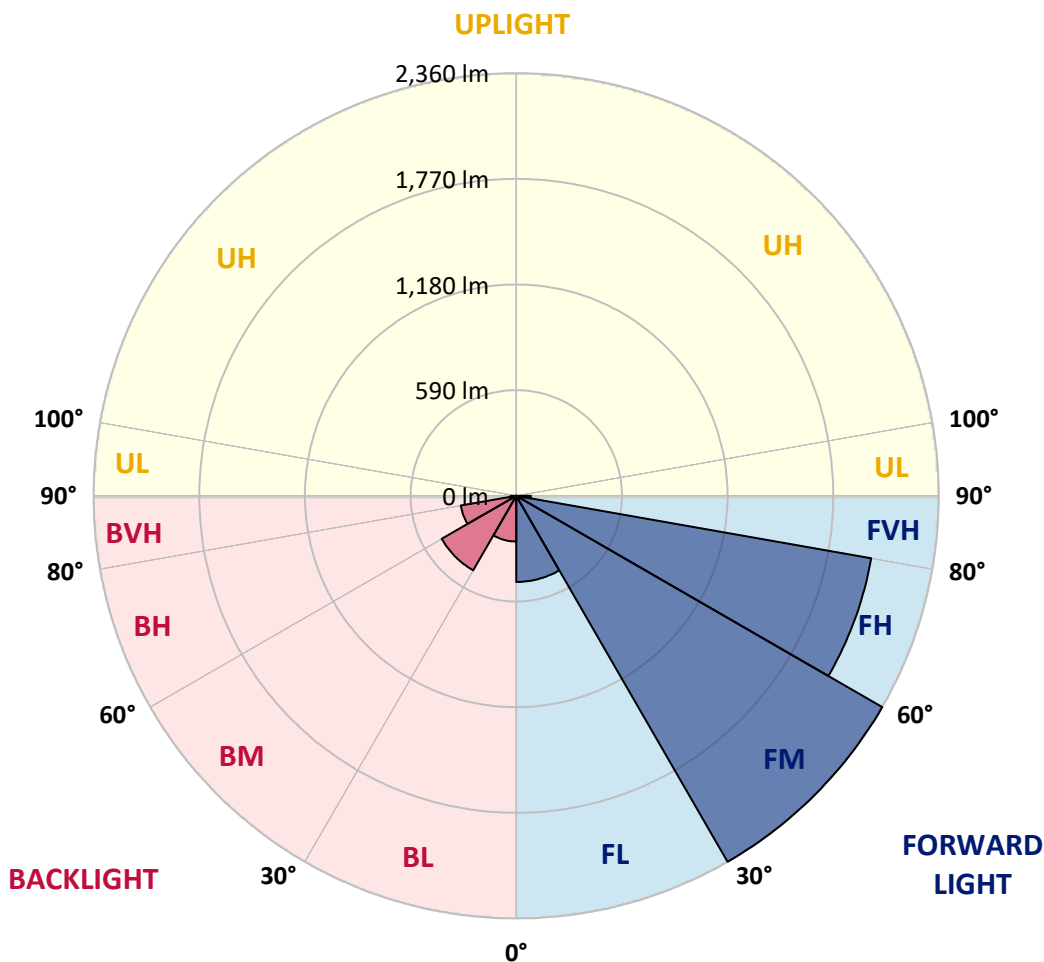


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	480.7	8.0			
FM (30°-60°)	2359.6	39.2			
FH (60°-80°)	2012.5	33.4			G2/5000
FVH (80°-90°)	81.7	1.4			G1/100
BL (0°-30°)	255.3	4.2	B1/500		
BM (30°-60°)	480.6	8.0	B1/1000		
BH (60°-80°)	314.4	5.2	B1/500		G1/500
BVH (80°-90°)	31.8	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	738.4	738.4	738.4	738.4	738.4	738.4	738.4	738.4	738.4	738.4	738.4
2.5°	819.7	815.8	816.1	810.5	803.2	795.2	784.1	774.1	766.2	761.5	748.0
5°	908.4	904.4	899.4	887.3	882.0	862.4	837.6	815.1	797.9	788.4	761.2
7.5°	980.1	979.2	977.8	970.9	957.3	930.2	909.0	870.0	844.5	826.4	780.1
10°	1024.4	1026.1	1027.1	1028.4	1022.8	1008.6	979.5	930.2	897.8	874.6	804.6
12.5°	1047.0	1048.6	1054.2	1066.5	1074.0	1072.4	1048.6	1000.3	955.6	925.3	830.7
15°	1060.8	1063.4	1073.4	1089.6	1115.1	1131.2	1119.7	1075.1	1026.1	990.0	861.8
17.5°	1076.1	1079.0	1089.9	1113.1	1146.5	1181.5	1194.1	1155.7	1102.5	1059.5	896.5
20°	1084.6	1088.6	1104.1	1134.6	1173.6	1224.5	1266.2	1246.0	1187.8	1140.1	936.5
22.5°	1098.5	1101.8	1115.1	1147.5	1194.1	1257.9	1338.3	1334.0	1282.7	1221.2	980.4
25°	1136.2	1141.5	1148.1	1167.6	1212.6	1291.9	1398.1	1427.8	1374.6	1305.8	1020.8
27.5°	1207.3	1211.6	1211.3	1213.9	1239.4	1321.4	1450.1	1520.8	1465.9	1391.5	1059.8
30°	1288.3	1290.0	1291.3	1285.4	1290.9	1351.5	1497.7	1612.7	1557.9	1479.5	1093.9
32.5°	1386.9	1390.2	1378.9	1363.8	1359.1	1396.1	1537.0	1704.6	1666.6	1568.7	1127.6
35°	1503.3	1511.9	1489.1	1462.2	1443.4	1460.3	1589.9	1798.6	1778.0	1682.8	1172.3
37.5°	1636.2	1646.8	1625.7	1573.0	1546.3	1550.9	1659.0	1914.6	1918.9	1812.8	1238.7
40°	1745.0	1758.9	1759.5	1685.1	1644.5	1649.8	1746.7	2039.6	2088.9	1973.5	1317.1
42.5°	1816.7	1830.4	1844.6	1800.9	1758.2	1788.3	1848.9	2175.2	2280.0	2168.6	1426.6
45°	1895.4	1907.7	1915.6	1895.8	1872.0	1950.0	1972.1	2319.4	2483.7	2386.5	1546.3
47.5°	1986.7	2000.3	2007.9	1989.0	1980.1	2091.9	2105.1	2454.0	2701.3	2598.2	1678.6
50°	2108.4	2118.6	2114.7	2102.8	2100.8	2200.6	2232.8	2579.9	2880.8	2826.0	1815.8
52.5°	2259.9	2272.1	2276.4	2259.5	2251.9	2278.4	2335.6	2694.7	3044.3	3021.7	1962.2
55°	2351.4	2370.9	2436.5	2462.9	2481.1	2378.9	2446.4	2821.4	3190.8	3228.1	2119.7
57.5°	2234.0	2259.2	2405.7	2538.0	2708.9	2630.2	2603.5	2953.6	3337.3	3428.2	2308.1
60°	1947.7	1953.3	2142.1	2385.8	2729.8	2953.3	2931.1	3163.9	3496.0	3629.8	2556.5
62.5°	1351.2	1363.1	1586.3	1975.2	2472.5	3069.7	3488.6	3527.1	3723.4	3931.8	2920.5
65°	696.8	681.2	884.6	1241.4	1864.1	2793.2	3940.4	4194.7	4216.9	4404.0	3433.1
67.5°	428.9	435.8	531.1	724.9	1102.1	2030.0	3893.1	5010.4	4893.7	4983.7	3909.0
70°	322.1	330.7	396.2	496.0	672.0	1160.7	3130.9	5208.2	5371.2	5348.1	4053.8
71°	280.1	289.1	357.2	451.4	564.5	895.8	2637.8	5001.2	5387.8	5383.8	3999.2
72.5°	238.8	244.4	297.6	382.2	475.8	628.0	1981.7	4485.3	5157.9	5289.9	3804.4
75°	187.5	191.8	215.6	291.7	374.7	385.6	1063.4	3362.7	4236.4	4487.7	3167.3
77.5°	152.8	155.8	167.9	216.6	289.1	273.2	557.8	2188.8	2654.0	2907.0	1865.7
80°	121.4	124.6	132.0	146.8	216.6	194.8	266.2	1109.1	1282.0	1279.4	744.7
82.5°	94.3	95.2	103.9	107.8	148.2	138.3	144.1	469.5	520.2	537.3	268.9
85°	59.5	62.5	91.9	82.7	88.6	81.0	71.1	186.5	229.8	226.5	107.5
87.5°	18.2	19.2	31.1	35.1	39.4	35.4	26.2	54.9	67.1	72.7	26.7
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°	738.4	738.4	738.4	738.4	738.4	738.4	738.4	738.4	738.4	738.4	738.4
2.5°	742.7	739.1	726.2	715.6	705.7	694.8	685.5	682.9	680.5	679.5	679.2
5°	749.7	738.7	713.3	692.5	675.9	660.7	651.1	646.8	642.5	642.5	643.9
7.5°	759.6	739.7	700.4	669.3	648.5	634.3	627.3	626.6	627.6	628.6	629.0
10°	770.5	739.1	681.5	642.9	624.4	617.7	618.1	623.7	629.0	632.9	633.6
12.5°	781.0	735.1	659.3	618.1	606.1	607.5	616.7	629.3	639.5	645.1	645.5
15°	793.0	728.8	632.6	594.6	590.6	600.8	618.1	637.2	652.8	662.0	663.0
17.5°	802.9	718.2	604.5	571.7	576.7	595.6	619.4	644.2	663.0	674.6	676.6
20°	814.2	704.7	575.4	549.9	564.1	589.6	616.7	643.5	663.0	674.2	676.9
22.5°	823.1	685.5	547.6	532.1	552.9	582.3	607.8	629.3	645.1	651.1	655.1
25°	826.7	661.4	521.5	517.6	544.0	570.5	587.6	599.9	604.8	604.2	605.8
27.5°	824.7	633.6	499.0	505.9	532.7	551.9	560.5	559.5	550.6	542.3	546.3
30°	816.4	600.5	480.1	494.0	518.1	528.7	527.5	514.5	497.7	482.1	483.2
32.5°	801.6	564.8	462.6	480.5	497.7	502.3	493.4	476.5	452.4	432.2	429.2
35°	789.0	530.8	447.1	464.9	477.2	474.8	466.3	444.5	422.6	404.8	401.7
37.5°	787.0	501.7	432.2	447.4	454.4	451.0	440.4	421.9	414.0	400.5	398.8
40°	797.6	481.1	417.0	428.9	432.2	429.6	418.0	407.4	414.7	411.3	411.3
42.5°	826.4	470.2	403.4	410.4	413.0	415.0	406.7	397.8	406.7	391.5	386.5
45°	872.0	470.5	391.2	392.2	400.1	407.0	401.4	388.2	383.6	353.1	347.2
47.5°	939.1	481.8	381.3	375.0	389.2	400.8	392.8	373.7	353.1	333.0	329.3
50°	1017.5	502.0	372.3	357.2	374.7	392.8	386.9	364.4	343.2	331.0	328.7
52.5°	1104.5	527.5	361.5	337.3	356.8	389.2	388.2	363.1	334.0	325.7	323.7
55°	1212.0	552.5	347.8	314.1	340.9	386.3	384.6	352.2	332.0	326.1	325.4
57.5°	1336.9	589.0	328.3	290.6	322.8	374.0	370.4	345.6	325.4	321.1	320.8
60°	1538.4	645.5	300.6	269.2	304.2	352.5	357.2	334.3	314.8	313.8	313.5
62.5°	1803.2	724.9	271.8	247.0	282.7	324.7	337.9	319.1	303.6	308.6	309.2
65°	2168.9	791.6	242.0	228.2	258.9	298.0	319.7	304.9	291.0	300.6	300.6
67.5°	2407.4	793.0	215.0	208.7	234.8	275.4	300.6	288.0	274.8	291.0	291.7
70°	2357.7	694.8	192.4	188.1	211.3	251.3	279.5	269.5	254.3	268.9	263.6
71°	2277.8	640.2	183.5	180.2	202.0	239.8	269.5	261.2	246.0	255.6	252.6
72.5°	2150.1	555.9	169.0	169.6	188.1	225.2	255.6	247.0	231.8	237.1	236.1
75°	1817.4	485.4	144.5	147.5	161.7	200.4	227.8	221.2	205.7	205.7	204.7
77.5°	1136.2	339.3	120.0	121.7	137.3	171.6	195.8	190.2	175.3	170.3	169.0
80°	423.9	175.3	93.9	95.9	105.5	135.2	162.1	156.8	141.5	135.9	130.6
82.5°	160.4	88.0	69.1	67.4	77.7	103.2	127.0	120.7	108.8	95.2	91.2
85°	60.6	43.6	42.3	41.0	45.7	61.1	78.7	77.4	64.8	55.3	54.2
87.5°	15.9	14.2	16.6	12.2	12.9	11.6	11.9	5.0	2.4	1.0	0.7
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)