

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: P650706

Luminaire Tested: **GALN-SA1C-840-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650706
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1C-840-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3572.6 lumens
Efficiency: N/A
Efficacy: 62.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

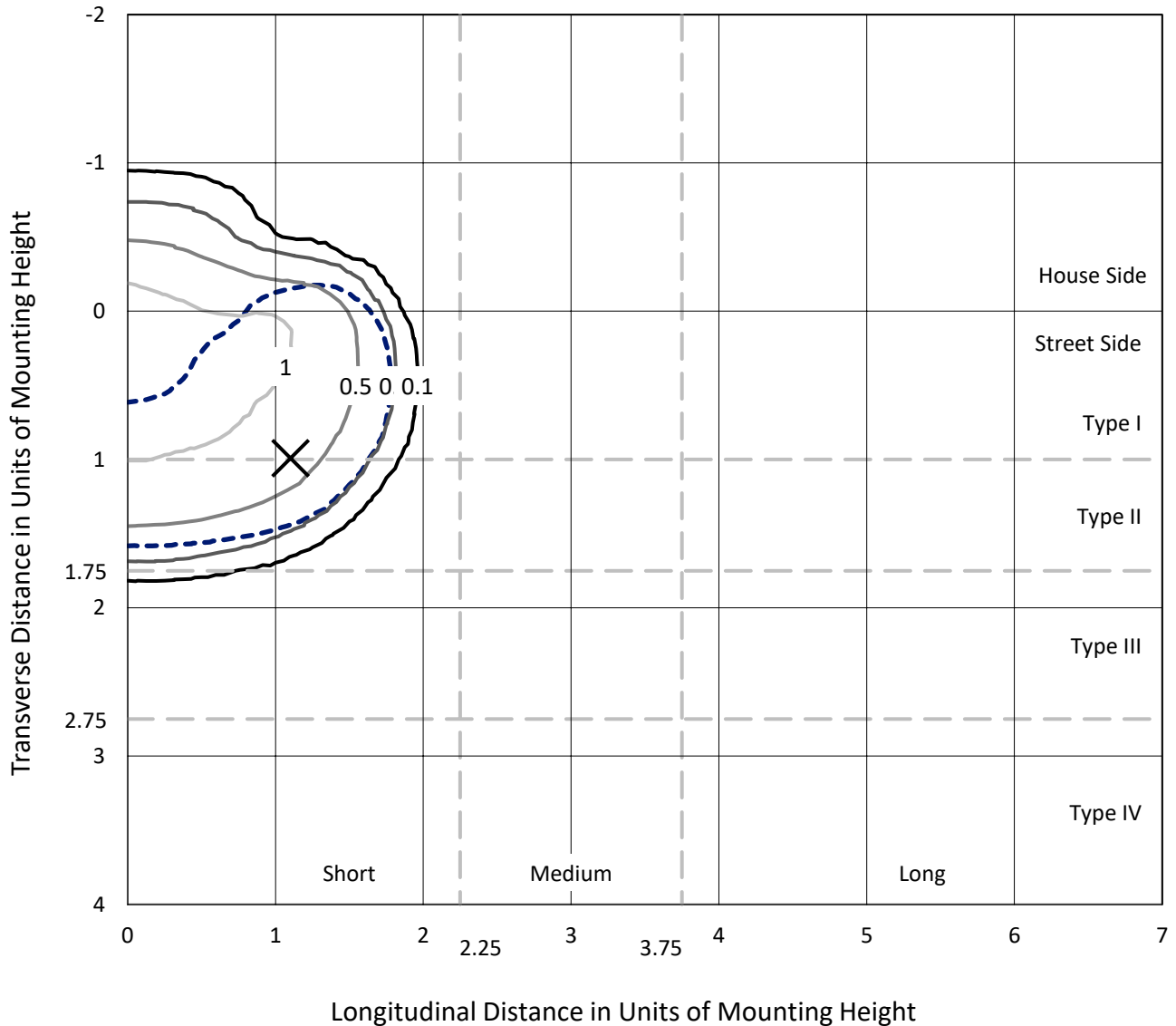
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

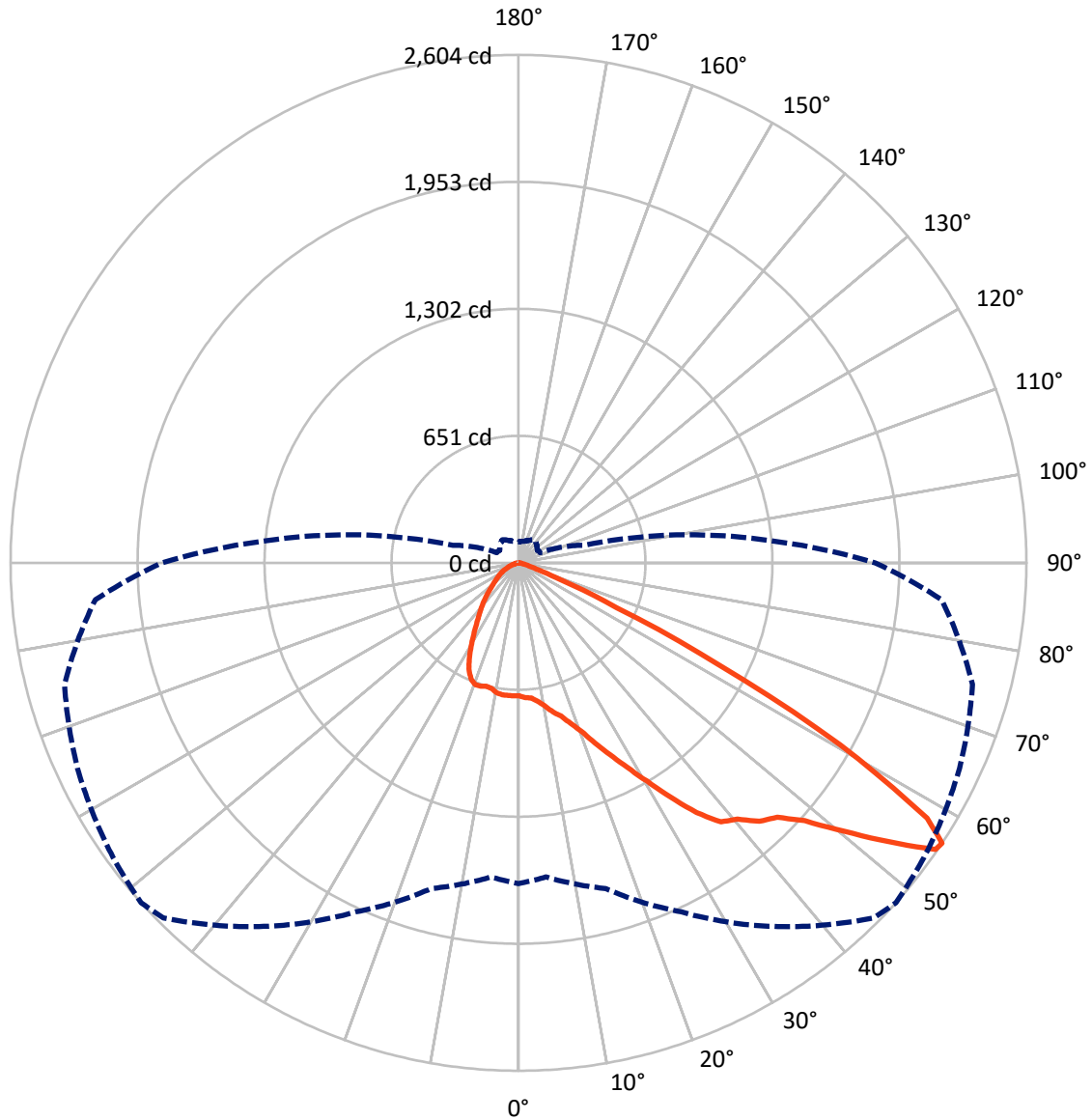
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type II - Short - N/A

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CATALOG NUMBER: GALN-SA1C-840-U-T3-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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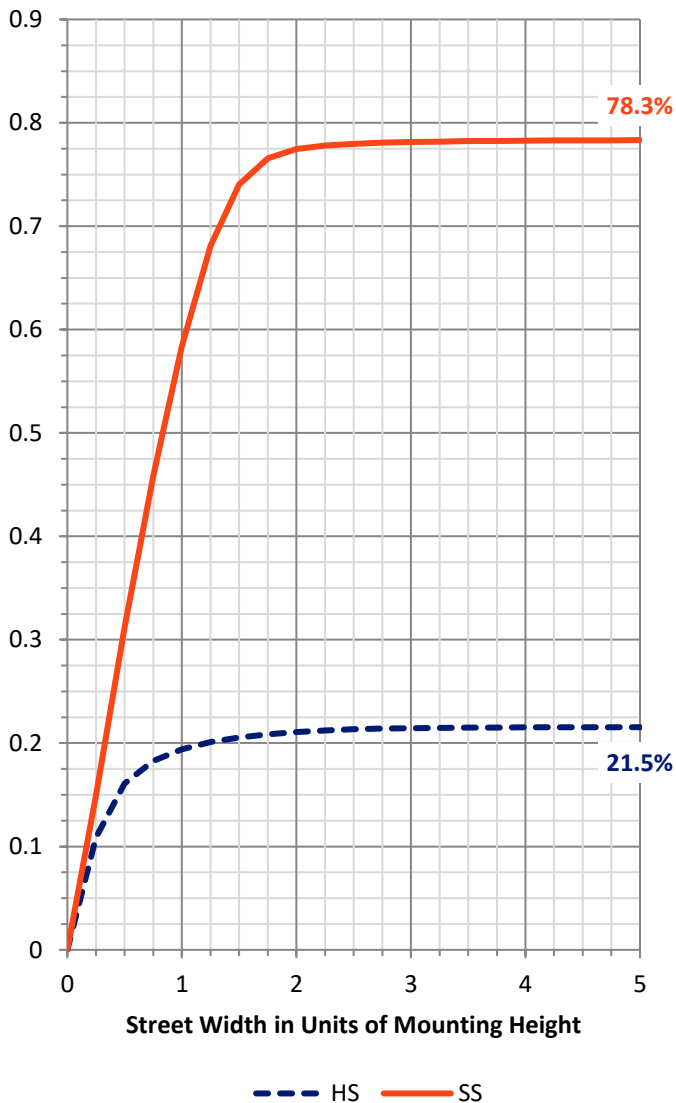
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	777.0	0.0	777.0
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	2795.6	0.0	2795.6
	% Fixture	78.3	0.0	78.3
Total	Lumens	3572.6	0.0	3572.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.5	1.9
10°-20°	212.4	5.9
20°-30°	385.3	10.8
30°-40°	605.2	16.9
40°-50°	882.9	24.7
50°-60°	1063.7	29.8
60°-70°	311.5	8.7
70°-80°	39.5	1.1
80°-90°	5.5	0.2
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°	3572.6	100.0
0°-180°	3572.6	100.0

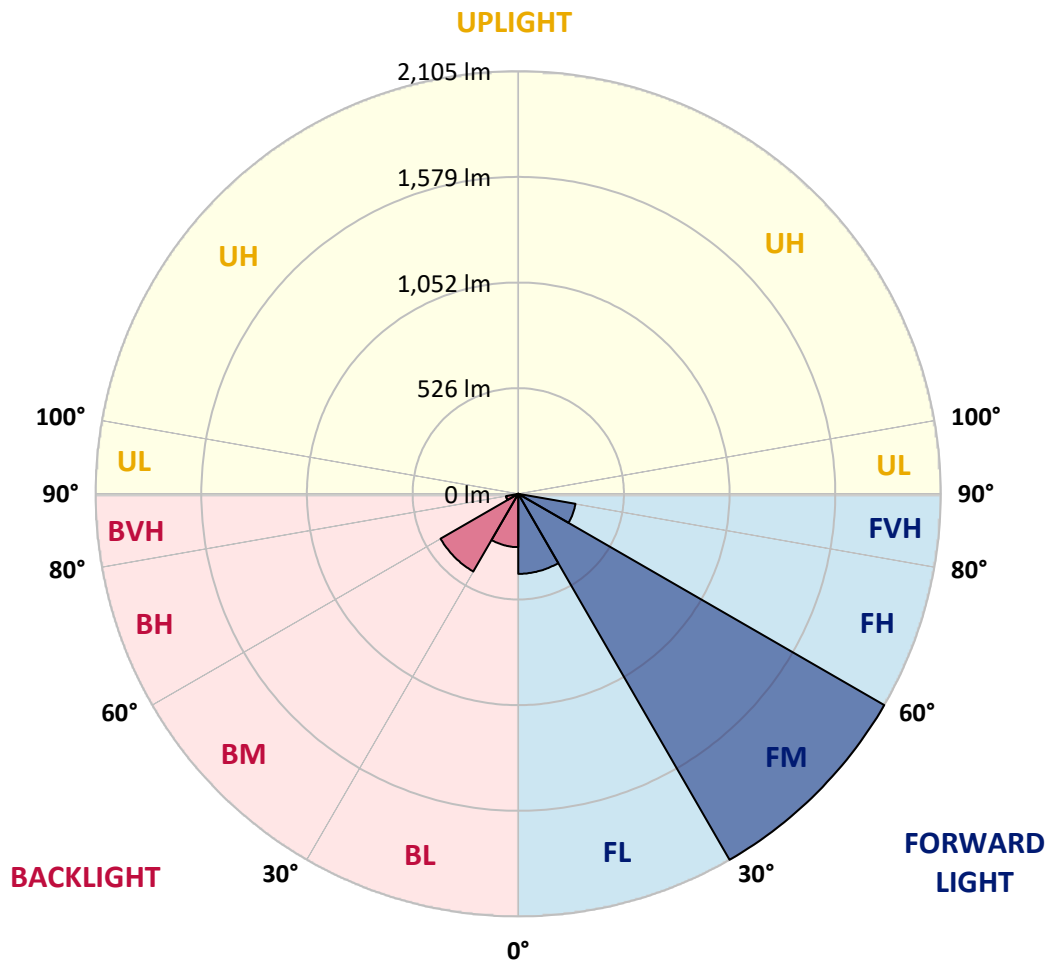


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	398.6	11.2			
FM (30°-60°)	2105.0	58.9			
FH (60°-80°)	289.2	8.1			G0/660
FVH (80°-90°)	2.8	0.1			G0/10
BL (0°-30°)	265.6	7.4	B1/500		
BM (30°-60°)	446.9	12.5	B1/1000		
BH (60°-80°)	61.7	1.7	B0/110		G0/110
BVH (80°-90°)	2.8	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4
2.5°	694.8	691.5	691.5	686.3	692.1	689.5	691.5	685.0	691.5	681.7	689.5
5°	697.9	698.6	696.0	699.3	699.3	703.2	696.7	702.5	705.8	698.6	695.3
7.5°	714.8	716.2	715.5	712.9	718.1	717.5	716.9	712.2	713.6	711.0	707.1
10°	748.1	747.4	750.7	744.1	740.2	744.8	746.1	739.0	733.8	731.8	719.5
12.5°	796.2	788.4	783.8	777.3	779.3	772.8	784.5	772.1	769.5	757.8	745.5
15°	835.2	833.9	834.6	824.2	812.5	815.1	815.1	808.5	804.7	790.4	772.8
17.5°	915.3	887.9	893.7	880.8	871.0	870.4	864.5	865.8	855.4	825.4	798.8
20°	977.7	966.0	956.9	934.8	919.8	924.3	921.7	915.3	912.0	873.0	835.2
22.5°	1033.6	1037.5	1022.6	1016.7	995.9	997.8	1003.1	997.2	972.4	932.2	876.2
25°	1112.3	1107.8	1087.6	1080.4	1060.9	1068.1	1088.3	1083.7	1068.1	995.2	908.1
27.5°	1205.3	1189.8	1193.6	1161.1	1142.2	1162.4	1186.5	1209.3	1165.0	1069.4	945.8
30°	1271.1	1254.8	1253.5	1252.2	1247.6	1271.1	1299.0	1319.9	1284.0	1143.6	1008.3
32.5°	1303.6	1307.5	1318.5	1314.7	1354.3	1402.5	1431.7	1461.7	1416.7	1264.5	1090.9
35°	1390.1	1365.4	1390.1	1392.7	1433.7	1535.8	1572.9	1644.4	1633.4	1435.6	1191.7
37.5°	1440.8	1438.9	1442.1	1466.9	1506.6	1632.7	1685.4	1740.7	1719.9	1538.4	1317.3
40°	1524.7	1529.9	1529.3	1548.2	1591.8	1705.5	1727.1	1771.9	1773.9	1680.8	1501.9
42.5°	1659.4	1638.6	1624.9	1644.4	1705.5	1768.7	1811.6	1802.5	1866.9	1853.9	1739.4
45°	1780.4	1792.8	1772.6	1805.1	1827.2	1861.0	1859.8	1879.3	1961.2	2023.0	1918.3
47.5°	1893.6	1901.4	1911.2	1933.3	1981.4	1986.6	1975.5	1967.1	2080.3	2144.0	2056.8
50°	1961.2	1968.4	2013.9	2053.6	2143.4	2155.1	2161.5	2140.1	2216.9	2224.0	2187.6
52.5°	1943.0	1950.8	2014.5	2145.3	2288.4	2395.8	2376.2	2339.8	2335.3	2363.2	2308.5
55°	1781.7	1774.5	1862.3	2065.9	2333.9	2591.5	2594.1	2555.8	2482.3	2463.4	2290.4
56°	1644.4	1616.5	1728.3	1974.2	2275.4	2574.6	2603.9	2562.9	2494.0	2409.4	2177.9
57.5°	1347.2	1373.9	1485.0	1688.6	2073.1	2453.0	2469.9	2460.2	2408.1	2266.3	1916.3
60°	742.9	789.7	887.9	1137.0	1476.0	1882.5	1896.2	1975.5	1985.3	1735.5	1318.5
62.5°	315.5	310.2	412.4	595.8	840.4	1136.4	1161.8	1243.1	1258.1	1000.5	661.5
65°	128.2	135.3	186.7	299.9	444.3	517.8	553.5	580.2	629.7	413.1	244.0
67.5°	84.6	83.9	109.9	171.1	239.3	230.9	230.9	244.0	225.7	168.5	105.4
70°	60.5	62.5	78.7	118.4	148.9	110.6	106.1	101.5	115.1	111.3	85.2
72.5°	39.7	42.3	52.7	70.9	77.4	60.5	60.5	72.8	94.9	89.7	69.6
75°	26.0	26.7	32.5	41.0	38.3	31.2	34.5	48.8	69.0	66.4	49.5
77.5°	17.6	18.2	22.1	26.7	21.4	17.6	18.8	24.7	33.8	33.8	26.0
80°	6.5	7.1	9.1	8.5	9.8	12.4	13.6	16.9	20.2	20.2	17.6
82.5°	0.0	0.7	1.9	4.5	7.1	9.8	11.0	13.0	15.0	16.9	16.2
85°	0.0	0.7	1.9	3.3	5.2	5.9	6.5	4.5	3.9	3.9	3.3
87.5°	0.0	0.0	0.7	0.7	0.7	0.7	0.7	0.7	1.3	0.7	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4
2.5°	682.4	681.7	681.7	679.8	683.6	681.7	683.0	682.4	673.9	680.4	675.8
5°	689.5	694.1	686.9	685.6	680.4	682.4	682.4	675.8	681.7	681.0	679.8
7.5°	707.7	700.0	692.1	684.3	683.0	681.0	673.9	671.3	675.8	670.6	678.4
10°	715.5	716.9	705.1	694.8	685.0	671.3	661.5	655.7	648.5	656.3	660.9
12.5°	751.3	738.3	718.1	701.9	668.7	655.1	645.3	642.7	655.1	657.7	653.1
15°	763.7	761.7	735.7	699.3	664.8	648.5	650.5	645.3	646.6	640.1	641.3
17.5°	789.0	766.9	736.4	690.8	664.1	660.3	648.5	627.7	616.0	610.8	615.4
20°	817.0	795.6	751.3	694.1	670.0	659.6	621.2	595.8	571.8	558.8	559.4
22.5°	841.8	815.1	744.8	695.3	675.2	632.3	586.1	536.0	506.1	485.9	486.6
25°	871.6	833.9	747.4	697.9	661.5	588.7	522.3	473.6	437.7	424.1	428.7
27.5°	888.6	845.6	761.7	703.8	625.8	526.9	455.3	409.8	389.0	382.5	381.8
30°	939.3	871.6	779.3	692.1	565.9	460.5	394.2	366.3	346.1	340.2	341.5
32.5°	1014.8	919.1	802.1	661.5	504.8	401.3	354.5	333.7	314.9	303.8	302.5
35°	1077.8	1000.5	826.1	614.1	433.9	355.8	326.6	300.5	271.9	259.5	256.3
37.5°	1198.2	1092.2	820.9	542.5	366.3	322.0	296.6	264.7	240.0	223.1	221.2
40°	1358.2	1199.5	795.6	455.3	316.1	292.1	264.7	234.1	203.6	189.3	188.0
42.5°	1552.7	1330.9	749.3	366.8	266.0	262.1	237.4	202.3	175.0	164.6	165.3
45°	1710.8	1443.4	702.5	294.7	229.0	232.9	211.4	178.2	159.4	150.9	150.9
47.5°	1851.3	1519.5	651.8	243.3	194.5	203.6	184.8	165.3	148.9	142.5	141.1
50°	1986.6	1597.0	601.1	197.1	165.8	175.0	173.0	157.4	144.4	136.6	137.3
52.5°	2071.1	1609.3	536.6	161.3	145.1	155.5	162.0	147.7	133.4	128.8	127.5
55°	1967.7	1450.0	416.3	132.7	123.0	136.6	148.9	132.7	121.6	113.9	113.2
56°	1828.5	1296.4	348.0	122.3	116.5	131.4	144.4	126.8	114.5	109.9	106.6
57.5°	1548.2	1060.9	256.9	108.7	108.0	122.3	137.3	121.0	106.6	102.8	102.8
60°	965.3	597.1	155.5	91.1	93.7	108.7	123.6	108.0	94.9	94.9	96.9
62.5°	439.8	248.5	94.4	77.4	80.7	93.7	109.9	97.6	90.4	97.6	98.9
65°	149.6	107.3	68.3	61.8	63.7	77.4	94.4	98.9	98.2	102.8	105.4
67.5°	83.9	69.0	57.3	51.4	50.1	57.3	77.4	98.9	94.9	93.0	94.4
70°	70.9	58.5	50.7	45.5	43.6	46.2	59.9	74.8	67.0	65.0	63.7
72.5°	57.3	48.8	44.2	41.0	35.2	29.9	27.3	28.6	31.9	33.8	37.1
75°	40.4	37.1	37.1	33.1	25.4	18.8	15.0	12.4	8.5	5.9	6.5
77.5°	22.8	22.8	23.4	20.2	16.2	12.4	9.1	6.5	3.3	1.3	0.7
80°	15.6	16.9	18.2	16.2	13.6	11.0	7.8	4.5	1.9	0.0	0.0
82.5°	15.6	17.6	18.8	16.2	13.6	10.4	7.8	4.5	1.9	0.7	0.0
85°	3.3	3.9	4.5	5.2	7.8	7.8	5.9	3.9	1.9	0.7	0.0
87.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.0	0.0
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)