

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: P526709

Luminaire Tested: **GALN-SA1C-830-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526709
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-830-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 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: 3376 lumens
Efficiency: N/A
Efficacy: 59.2 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

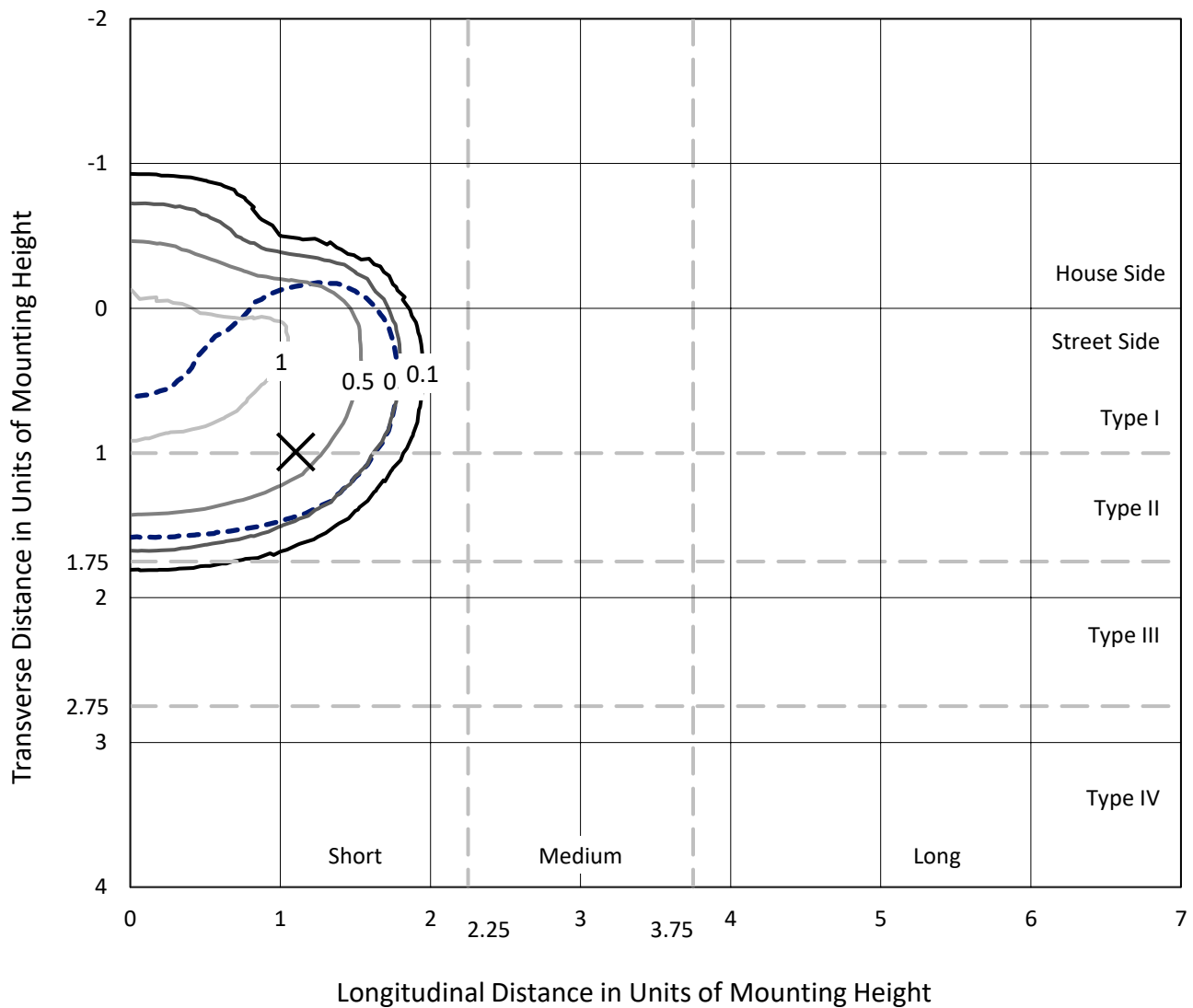


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Iso-Footcandle Lines of Horizontal Illumination

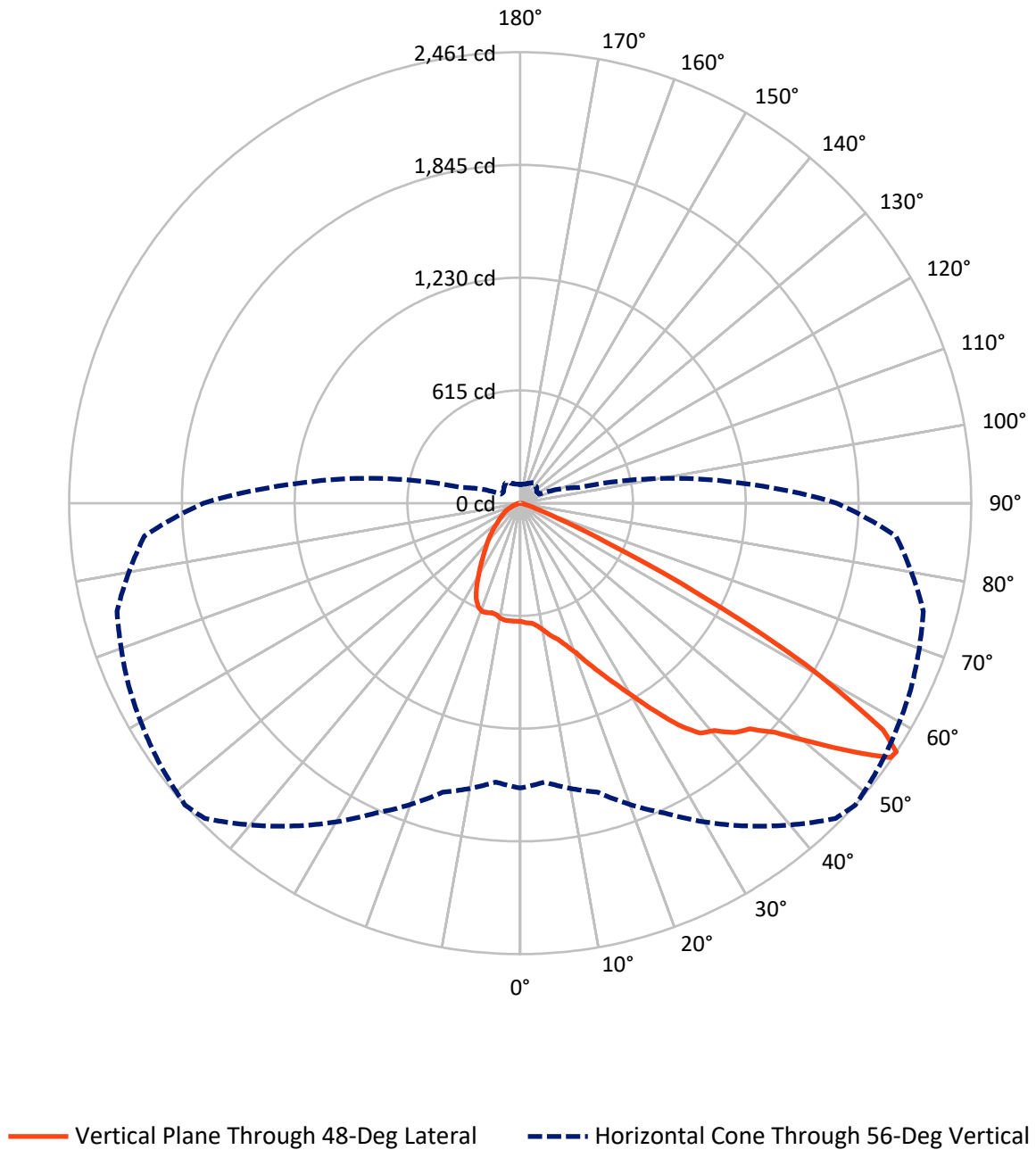
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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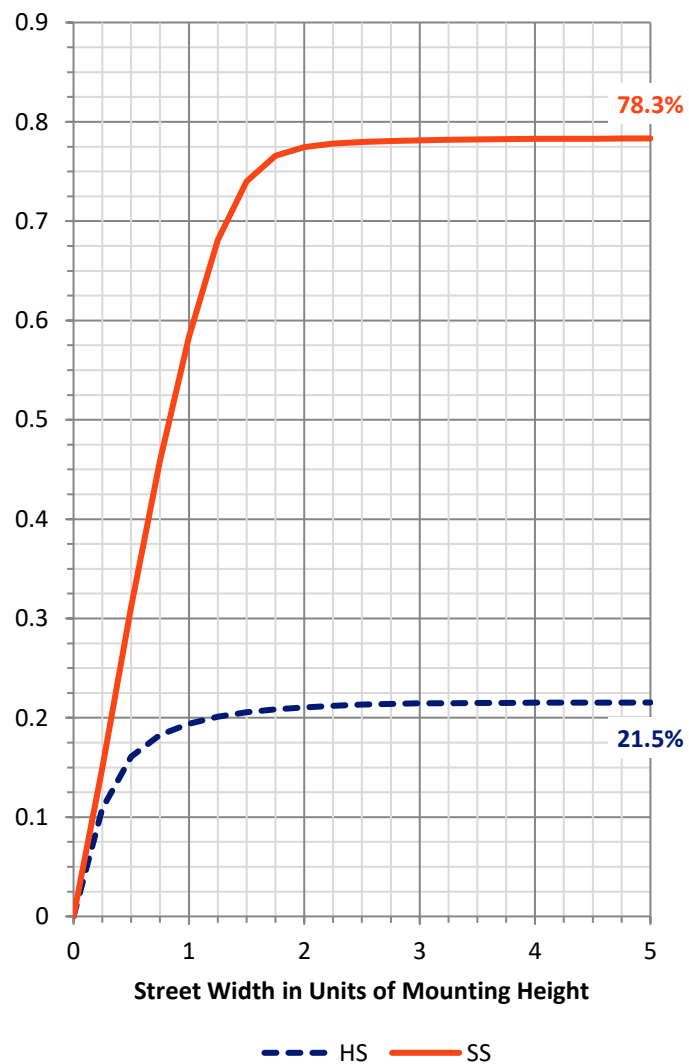
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	734.2	0.0	734.2
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	2641.8	0.0	2641.8
	% Fixture	78.3	0.0	78.3
Total	Lumens	3376.0	0.0	3376.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.8	1.9
10°-20°	200.7	5.9
20°-30°	364.1	10.8
30°-40°	571.9	16.9
40°-50°	834.3	24.7
50°-60°	1005.2	29.8
60°-70°	294.3	8.7
70°-80°	37.3	1.1
80°-90°	5.2	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°	3376.0	100.0
0°-180°	3376.0	100.0

Coefficient of Utilization



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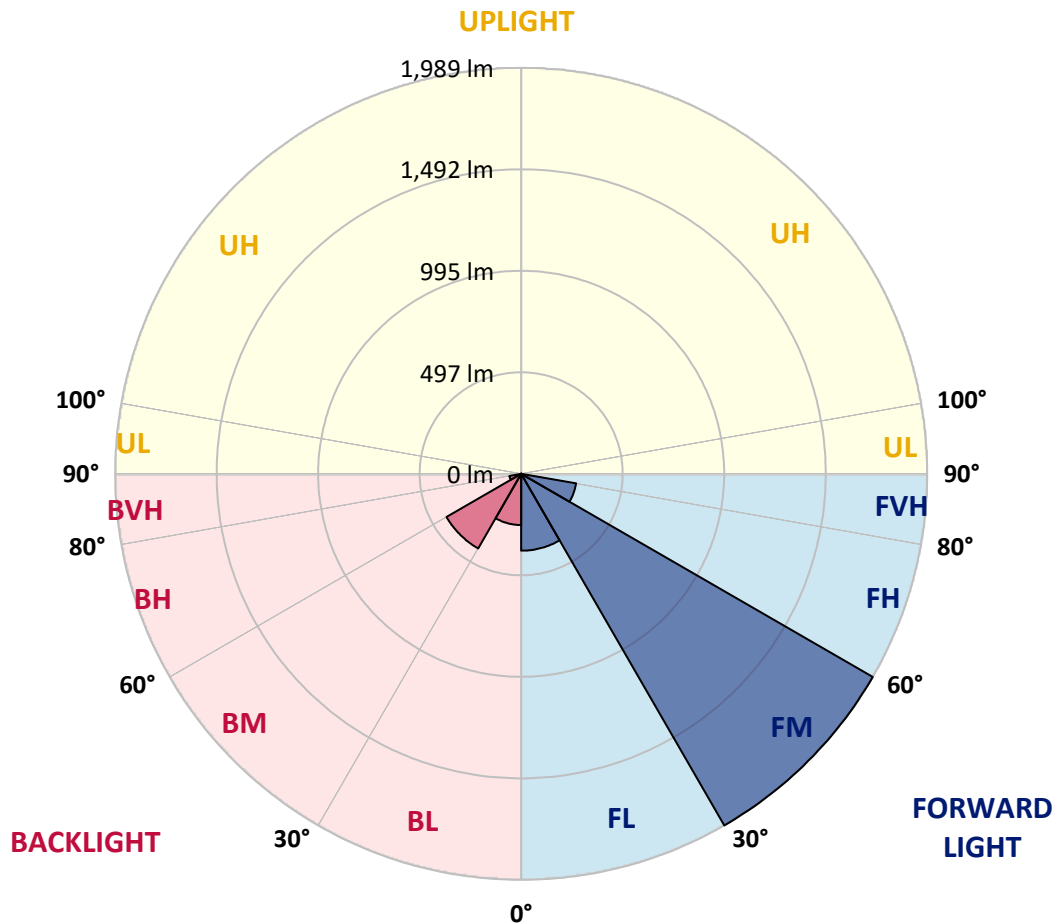
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	376.7	11.2			
FM	(30°-60°)	1989.2	58.9			
FH	(60°-80°)	273.3	8.1			G0/660
FVH	(80°-90°)	2.6	0.1			G0/10
BL	(0°-30°)	251.0	7.4	B1/500		
BM	(30°-60°)	422.3	12.5	B1/1000		
BH	(60°-80°)	58.3	1.7	B0/110		G0/110
BVH	(80°-90°)	2.6	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°	644.8	644.8	644.8	644.8	644.8	644.8	644.8	644.8	644.8	644.8	644.8
2.5°	656.5	653.4	653.4	648.5	654.0	651.6	653.4	647.3	653.4	644.2	651.6
5°	659.6	660.2	657.7	660.8	660.8	664.5	658.3	663.9	666.9	660.2	657.1
7.5°	675.6	676.8	676.2	673.7	678.6	678.0	677.4	673.1	674.3	671.9	668.2
10°	706.9	706.3	709.4	703.2	699.5	703.8	705.1	698.3	693.4	691.5	679.9
12.5°	752.4	745.0	740.7	734.6	736.4	730.3	741.3	729.6	727.2	716.1	704.4
15°	789.3	788.0	788.7	778.8	767.8	770.2	770.2	764.1	760.4	746.9	730.3
17.5°	864.9	839.1	844.6	832.3	823.1	822.5	816.9	818.2	808.3	780.1	754.8
20°	923.9	912.8	904.2	883.3	869.2	873.5	871.0	864.9	861.8	824.9	789.3
22.5°	976.8	980.4	966.3	960.8	941.1	942.9	947.9	942.3	919.0	880.9	828.0
25°	1051.1	1046.8	1027.8	1021.0	1002.6	1009.3	1028.4	1024.1	1009.3	940.5	858.1
27.5°	1139.0	1124.3	1128.0	1097.2	1079.4	1098.5	1121.2	1142.7	1100.9	1010.6	893.8
30°	1201.1	1185.8	1184.5	1183.3	1179.0	1201.1	1227.6	1247.2	1213.4	1080.6	952.8
32.5°	1231.9	1235.5	1246.0	1242.3	1279.8	1325.3	1352.9	1381.2	1338.8	1195.0	1030.8
35°	1313.6	1290.2	1313.6	1316.1	1354.8	1451.3	1486.3	1554.0	1543.5	1356.6	1126.1
37.5°	1361.6	1359.7	1362.8	1386.1	1423.6	1542.9	1592.7	1644.9	1625.3	1453.8	1244.8
40°	1440.9	1445.8	1445.2	1463.0	1504.2	1611.7	1632.0	1674.4	1676.3	1588.4	1419.3
42.5°	1568.1	1548.4	1535.5	1554.0	1611.7	1671.4	1711.9	1703.3	1764.2	1751.9	1643.7
45°	1682.4	1694.1	1675.1	1705.8	1726.7	1758.6	1757.4	1775.9	1853.3	1911.7	1812.7
47.5°	1789.4	1796.8	1806.0	1826.9	1872.4	1877.3	1866.8	1858.8	1965.8	2026.0	1943.7
50°	1853.3	1860.1	1903.1	1940.6	2025.4	2036.5	2042.6	2022.4	2094.9	2101.7	2067.2
52.5°	1836.1	1843.5	1903.7	2027.3	2162.5	2263.9	2245.5	2211.1	2206.8	2233.2	2181.6
55°	1683.7	1676.9	1759.9	1952.3	2205.5	2449.0	2451.4	2415.1	2345.7	2327.9	2164.3
56°	1554.0	1527.5	1633.3	1865.6	2150.2	2433.0	2460.6	2421.9	2356.7	2276.8	2058.0
57.5°	1273.0	1298.2	1403.4	1595.8	1959.0	2318.0	2334.0	2324.8	2275.6	2141.6	1810.9
60°	702.0	746.2	839.1	1074.5	1394.7	1778.9	1791.8	1866.8	1876.1	1640.0	1246.0
62.5°	298.1	293.2	389.7	563.1	794.2	1073.9	1097.8	1174.7	1188.8	945.4	625.1
65°	121.1	127.9	176.4	283.4	419.8	489.3	523.1	548.3	595.0	390.3	230.5
67.5°	79.9	79.3	103.9	161.7	226.2	218.2	218.2	230.5	213.3	159.2	99.6
70°	57.2	59.0	74.4	111.9	140.8	104.5	100.2	95.9	108.8	105.1	80.5
72.5°	37.5	40.0	49.8	67.0	73.1	57.2	57.2	68.8	89.7	84.8	65.8
75°	24.6	25.2	30.7	38.7	36.3	29.5	32.6	46.1	65.2	62.7	46.7
77.5°	16.6	17.2	20.9	25.2	20.3	16.6	17.8	23.4	32.0	32.0	24.6
80°	6.1	6.8	8.6	8.0	9.2	11.7	12.9	16.0	19.1	19.1	16.6
82.5°	0.0	0.6	1.8	4.3	6.8	9.2	10.4	12.3	14.1	16.0	15.4
85°	0.0	0.6	1.8	3.1	4.9	5.5	6.1	4.3	3.7	3.7	3.1
87.5°	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6	1.2	0.6	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

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	644.8	644.8	644.8	644.8	644.8	644.8	644.8	644.8	644.8	644.8	644.8
2.5°	644.8	644.2	644.2	642.4	646.0	644.2	645.4	644.8	636.8	643.0	638.7
5°	651.6	655.9	649.1	647.9	643.0	644.8	644.8	638.7	644.2	643.6	642.4
7.5°	668.8	661.4	654.0	646.7	645.4	643.6	636.8	634.4	638.7	633.8	641.1
10°	676.2	677.4	666.3	656.5	647.3	634.4	625.1	619.6	612.9	620.2	624.5
12.5°	710.0	697.7	678.6	663.3	631.9	619.0	609.8	607.3	619.0	621.5	617.2
15°	721.7	719.8	695.2	660.8	628.2	612.9	614.7	609.8	611.0	604.9	606.1
17.5°	745.6	724.7	695.8	652.8	627.6	623.9	612.9	593.2	582.1	577.2	581.5
20°	772.1	751.8	710.0	655.9	633.1	623.3	587.0	563.1	540.3	528.0	528.6
22.5°	795.4	770.2	703.8	657.1	638.1	597.5	553.8	506.5	478.2	459.2	459.8
25°	823.7	788.0	706.3	659.6	625.1	556.3	493.6	447.5	413.7	400.8	405.1
27.5°	839.7	799.1	719.8	665.1	591.3	497.9	430.3	387.3	367.6	361.4	360.8
30°	887.6	823.7	736.4	654.0	534.8	435.2	372.5	346.1	327.0	321.5	322.7
32.5°	958.9	868.6	757.9	625.1	477.0	379.3	335.0	315.3	297.5	287.1	285.8
35°	1018.6	945.4	780.7	580.3	410.0	336.2	308.6	284.0	256.9	245.3	242.2
37.5°	1132.3	1032.1	775.7	512.7	346.1	304.3	280.3	250.2	226.8	210.8	209.0
40°	1283.5	1133.5	751.8	430.3	298.7	276.0	250.2	221.3	192.4	178.9	177.6
42.5°	1467.3	1257.7	708.1	346.7	251.4	247.7	224.4	191.2	165.4	155.5	156.1
45°	1616.7	1364.0	663.9	278.5	216.4	220.1	199.8	168.4	150.6	142.6	142.6
47.5°	1749.4	1435.9	615.9	229.9	183.8	192.4	174.6	156.1	140.8	134.6	133.4
50°	1877.3	1509.1	568.0	186.3	156.7	165.4	163.5	148.8	136.5	129.1	129.7
52.5°	1957.2	1520.8	507.1	152.4	137.1	146.9	153.1	139.5	126.0	121.7	120.5
55°	1859.5	1370.2	393.4	125.4	116.2	129.1	140.8	125.4	114.9	107.6	107.0
56°	1727.9	1225.1	328.9	115.6	110.0	124.2	136.5	119.9	108.2	103.9	100.8
57.5°	1463.0	1002.6	242.8	102.7	102.0	115.6	129.7	114.3	100.8	97.1	97.1
60°	912.2	564.3	146.9	86.1	88.5	102.7	116.8	102.0	89.7	89.7	91.6
62.5°	415.5	234.8	89.1	73.1	76.2	88.5	103.9	92.2	85.4	92.2	93.4
65°	141.4	101.4	64.5	58.4	60.2	73.1	89.1	93.4	92.8	97.1	99.6
67.5°	79.3	65.2	54.1	48.6	47.3	54.1	73.1	93.4	89.7	87.9	89.1
70°	67.0	55.3	47.9	43.0	41.2	43.6	56.6	70.7	63.3	61.5	60.2
72.5°	54.1	46.1	41.8	38.7	33.2	28.3	25.8	27.0	30.1	32.0	35.0
75°	38.1	35.0	35.0	31.3	24.0	17.8	14.1	11.7	8.0	5.5	6.1
77.5°	21.5	21.5	22.1	19.1	15.4	11.7	8.6	6.1	3.1	1.2	0.6
80°	14.8	16.0	17.2	15.4	12.9	10.4	7.4	4.3	1.8	0.0	0.0
82.5°	14.8	16.6	17.8	15.4	12.9	9.8	7.4	4.3	1.8	0.6	0.0
85°	3.1	3.7	4.3	4.9	7.4	7.4	5.5	3.7	1.8	0.6	0.0
87.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	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)