

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: P647209

Luminaire Tested: **GALN-SA1D-835-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647209
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1D-835-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5021.4 lumens
Efficiency: N/A
Efficacy: 77.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G1

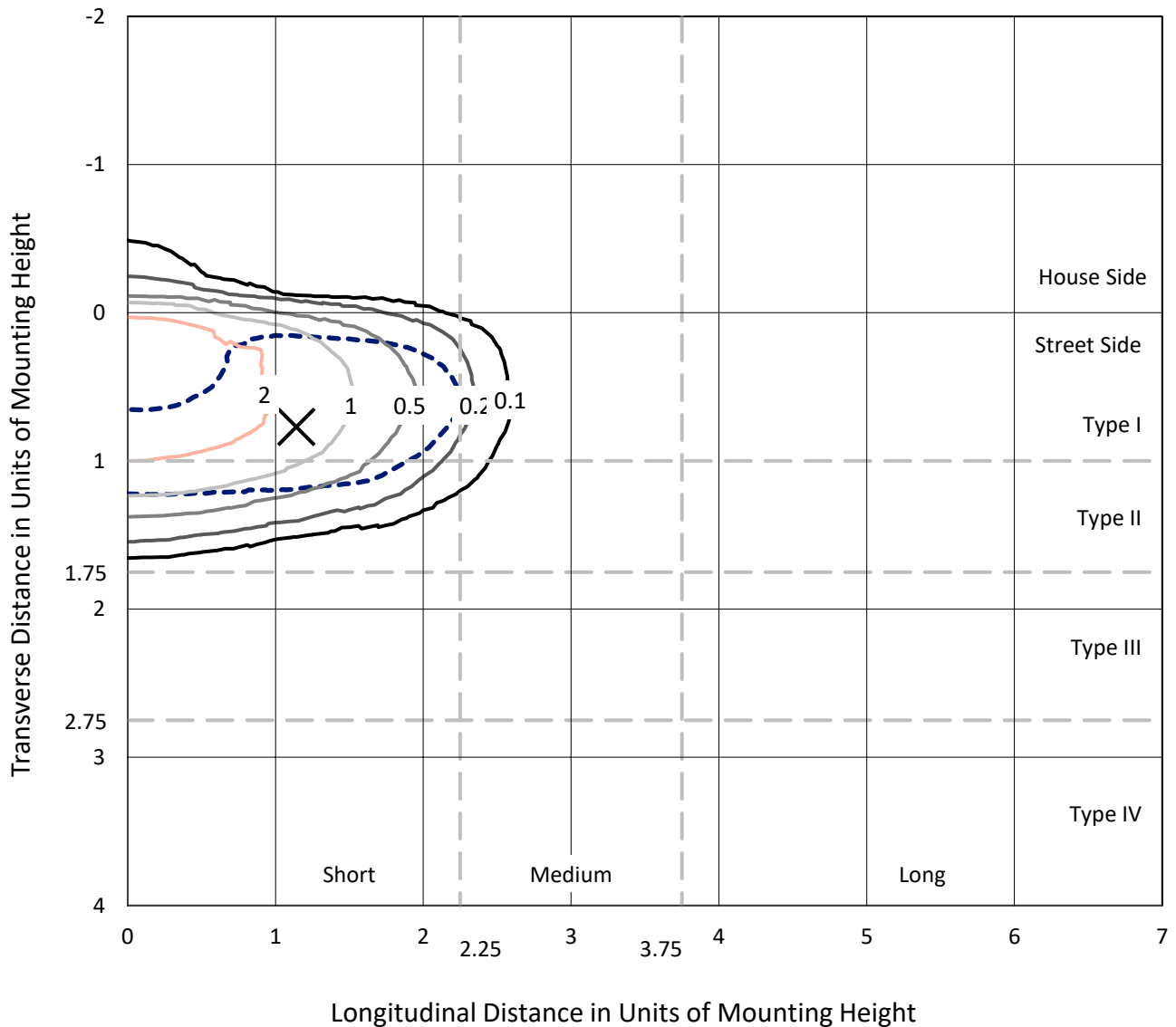
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

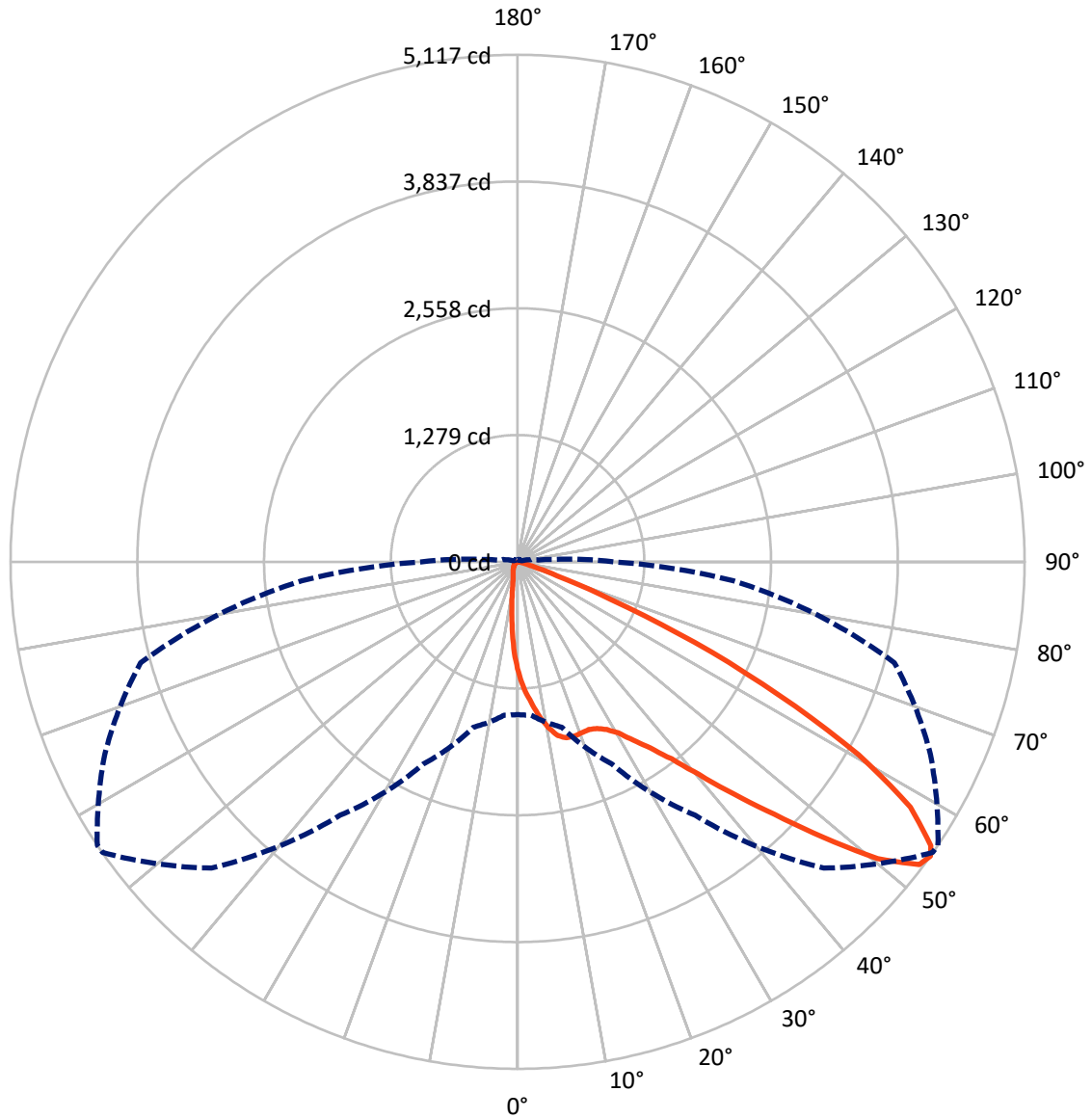
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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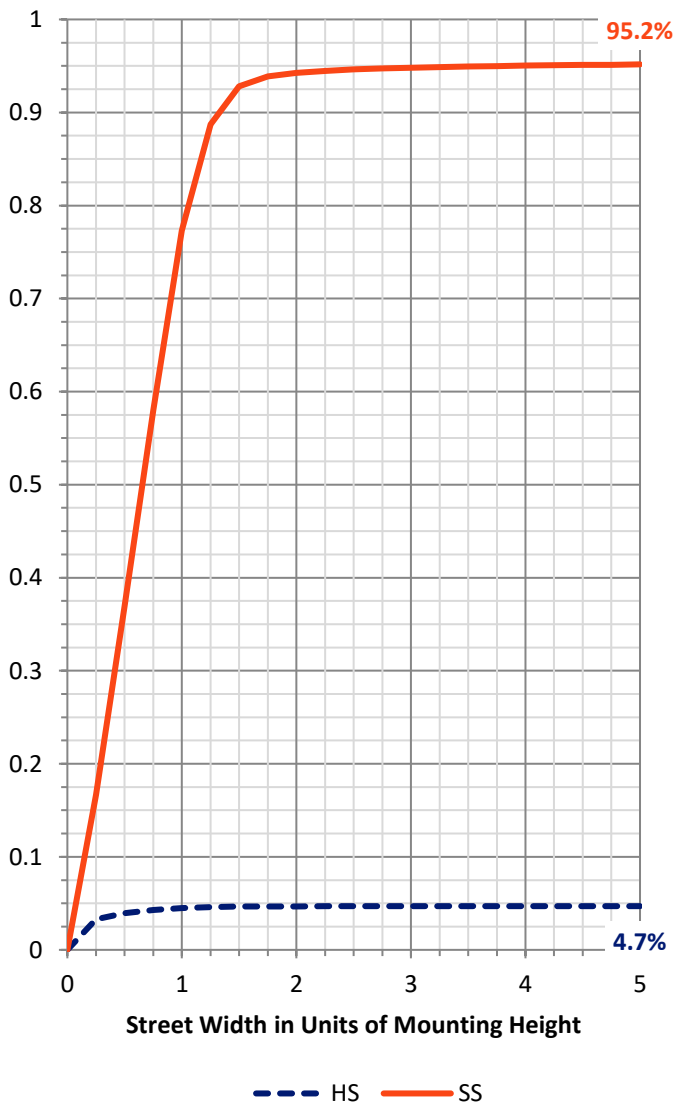
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	237.4	0.0	237.4
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	4783.9	0.0	4783.9
	% Fixture	95.3	0.0	95.3
Total	Lumens	5021.4	0.0	5021.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.6	2.0
10°-20°	266.5	5.3
20°-30°	461.6	9.2
30°-40°	796.7	15.9
40°-50°	1356.0	27.0
50°-60°	1342.0	26.7
60°-70°	612.5	12.2
70°-80°	78.7	1.6
80°-90°	8.9	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°	5021.4	100.0
0°-180°	5021.4	100.0

Coefficient of Utilization

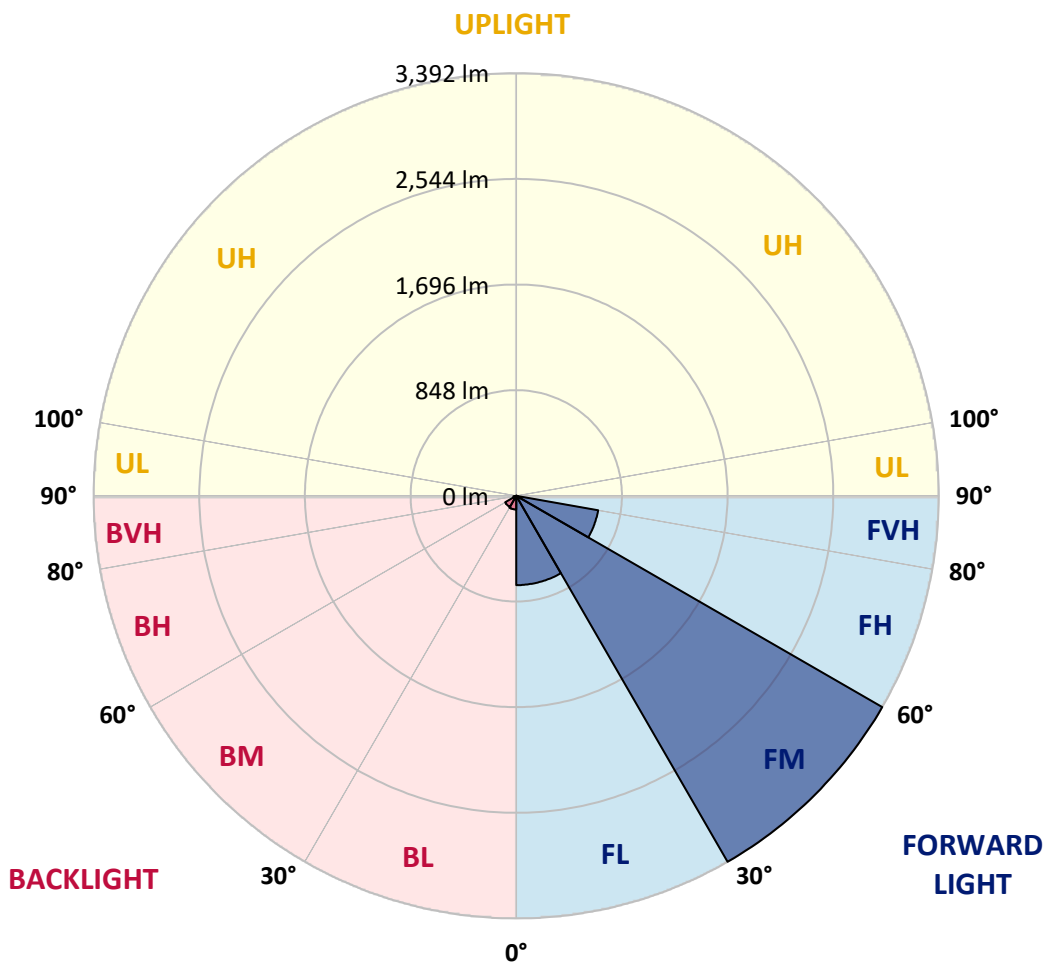


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	716.8	14.3			
FM (30°-60°)	3391.8	67.5			
FH (60°-80°)	667.4	13.3			G1/1800
FVH (80°-90°)	7.9	0.2			G0/10
BL (0°-30°)	109.8	2.2	B0/110		
BM (30°-60°)	102.9	2.0	B0/220		
BH (60°-80°)	23.8	0.5	B0/110		G0/110
BVH (80°-90°)	0.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1115.6	1115.6	1115.6	1115.6	1115.6	1115.6	1115.6	1115.6	1115.6	1115.6	1115.6
2.5°	1417.8	1408.0	1394.4	1384.0	1359.2	1323.6	1286.0	1286.0	1249.7	1199.3	1147.8
5°	1635.3	1628.9	1615.6	1588.6	1560.8	1511.0	1435.4	1422.2	1357.5	1266.0	1169.8
7.5°	1723.7	1726.7	1727.5	1720.3	1707.1	1658.0	1583.1	1574.0	1470.6	1348.0	1198.6
10°	1639.1	1653.9	1668.5	1697.9	1739.7	1751.5	1709.1	1699.7	1598.0	1431.0	1229.8
12.5°	1513.0	1521.1	1529.3	1575.7	1659.3	1755.3	1799.6	1799.3	1713.2	1513.7	1269.4
15°	1454.4	1461.5	1462.2	1482.8	1555.4	1695.0	1838.2	1843.3	1825.7	1615.6	1312.1
17.5°	1466.6	1472.4	1467.6	1472.7	1510.6	1628.5	1833.8	1850.8	1916.9	1713.5	1350.8
20°	1546.2	1557.4	1539.1	1524.9	1536.4	1610.9	1818.9	1842.6	1981.2	1809.1	1386.0
22.5°	1689.2	1695.3	1672.3	1633.3	1612.9	1647.8	1814.8	1838.2	2036.1	1887.3	1406.3
25°	1848.0	1846.0	1820.6	1776.9	1734.2	1722.4	1841.6	1862.6	2081.4	1957.8	1412.4
27.5°	2006.9	2013.0	1970.3	1916.2	1865.0	1834.2	1901.6	1917.2	2132.7	2038.1	1419.8
30°	2191.5	2181.8	2139.7	2077.8	2019.1	1976.1	1998.1	2002.5	2203.1	2144.5	1439.5
32.5°	2431.8	2404.7	2357.6	2249.2	2207.1	2134.3	2139.7	2145.2	2288.8	2249.9	1463.2
35°	2757.6	2756.3	2664.2	2518.1	2415.9	2325.4	2301.7	2306.1	2418.5	2406.4	1515.7
37.5°	3150.0	3155.4	3050.4	2903.4	2715.0	2571.4	2522.6	2523.2	2615.7	2622.5	1595.7
40°	3469.5	3483.7	3421.0	3321.7	3135.8	2911.1	2829.1	2821.7	2892.9	2884.4	1709.8
42.5°	3607.0	3620.2	3643.6	3678.1	3575.8	3390.5	3197.1	3207.2	3228.9	3169.7	1837.9
45°	3539.6	3560.6	3652.4	3865.8	3962.1	3899.7	3669.0	3633.4	3541.6	3479.7	1966.7
47.5°	3258.8	3309.9	3463.4	3818.8	4155.5	4366.2	4201.6	4154.4	3854.6	3705.9	2048.6
50°	2797.0	2800.0	3013.8	3468.1	4055.2	4660.6	4745.3	4710.1	4146.4	3832.9	2089.9
52.5°	2027.6	2094.4	2290.2	2816.3	3620.9	4615.9	5091.8	5077.3	4447.2	3898.0	2149.6
54°	1541.5	1554.3	1728.5	2250.5	3121.9	4370.3	5113.2	5116.6	4596.6	3937.3	2184.8
55°	1263.7	1232.8	1415.7	1917.2	2781.4	4153.1	5043.5	5059.7	4663.6	3957.7	2210.9
57.5°	599.0	599.3	739.2	1011.2	1742.0	3224.9	4616.9	4674.5	4671.1	3992.5	2291.2
60°	303.2	305.2	336.1	466.8	860.5	2143.8	3817.4	3954.6	4311.7	3997.6	2317.6
62.5°	212.1	209.7	204.6	224.6	362.1	1089.5	2842.1	2961.3	3663.3	3804.2	2233.6
65°	181.6	176.5	162.2	159.3	182.9	434.0	1770.1	1964.6	2797.0	3294.0	1994.4
67.5°	155.2	153.2	140.2	132.5	129.4	189.0	913.4	1015.6	1911.8	2367.7	1510.6
70°	131.8	130.8	123.0	113.1	104.7	113.1	338.8	419.8	1065.4	1274.8	712.8
72.5°	107.0	108.1	109.5	96.9	88.1	80.3	144.7	168.3	445.8	455.6	249.3
75°	93.8	92.9	92.9	84.3	73.5	59.7	79.6	85.7	136.6	126.7	57.9
77.5°	66.1	63.7	74.5	69.5	61.3	42.4	45.4	48.1	56.6	48.5	27.1
80°	45.7	45.7	47.8	62.3	55.2	30.9	27.8	29.8	33.5	28.8	15.6
82.5°	25.8	26.4	31.2	33.2	32.2	20.7	18.3	18.6	22.4	19.7	9.8
85°	3.1	5.1	17.9	17.6	13.2	9.2	10.2	10.5	13.9	12.2	5.8
87.5°	0.3	0.7	3.8	4.8	3.4	3.8	3.8	3.8	4.8	5.4	4.1
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°	1115.6	1115.6	1115.6	1115.6	1115.6	1115.6	1115.6	1115.6	1115.6	1115.6	1115.6
2.5°	1120.0	1094.2	1032.9	961.8	916.4	842.6	780.2	735.2	724.0	702.3	708.7
5°	1118.7	1065.1	940.1	808.0	667.0	562.0	483.8	422.1	395.0	377.1	364.6
7.5°	1119.3	1035.7	835.1	624.7	456.3	353.4	280.9	243.3	218.1	207.7	209.1
10°	1121.3	1002.5	713.2	462.8	308.0	228.3	183.9	166.0	157.5	156.2	155.8
12.5°	1126.1	966.2	596.6	343.5	215.5	166.0	149.1	143.0	140.2	140.2	139.2
15°	1131.2	926.2	499.7	255.4	166.0	142.7	134.8	131.8	130.1	130.1	129.7
17.5°	1131.2	880.2	409.3	198.2	143.0	131.1	125.0	121.0	119.6	119.6	119.3
20°	1124.1	826.6	328.9	159.6	129.7	120.3	114.2	109.8	108.1	107.4	107.0
22.5°	1099.3	755.1	261.9	137.2	118.9	110.8	103.0	97.9	96.5	95.8	96.2
25°	1055.3	674.5	207.3	120.6	109.1	99.3	92.5	88.8	87.4	87.4	87.8
27.5°	1009.9	590.1	164.3	108.1	97.2	88.4	83.0	80.6	80.3	81.3	81.7
30°	967.9	505.4	133.1	97.9	86.8	79.2	75.6	74.9	74.9	75.2	75.6
32.5°	921.1	431.3	111.4	89.1	78.2	71.8	69.8	69.8	70.5	70.5	71.2
35°	891.7	367.5	97.9	80.6	71.8	66.4	65.1	65.4	66.4	67.7	68.4
37.5°	875.8	316.7	89.1	73.8	65.7	62.0	60.6	61.3	63.7	66.1	66.4
40°	877.1	278.5	82.0	68.1	61.0	56.9	55.9	57.9	60.3	62.6	63.0
42.5°	892.0	250.0	75.2	61.3	56.9	51.1	50.8	52.9	53.9	56.2	56.6
45°	909.6	229.3	68.1	54.2	49.5	44.4	44.7	46.4	47.8	51.5	52.1
47.5°	915.0	215.1	60.0	46.0	40.6	39.0	39.3	40.3	43.0	46.4	46.7
50°	921.1	206.3	52.1	39.0	34.5	34.2	34.5	35.2	37.0	38.3	38.0
52.5°	947.2	206.0	45.7	33.9	29.4	30.1	30.5	30.1	28.8	26.8	26.1
54°	971.6	207.0	42.7	31.5	27.1	28.1	27.8	26.1	22.7	20.7	19.7
55°	991.3	208.0	41.0	29.8	25.8	26.1	26.4	23.0	18.6	16.6	15.9
57.5°	1029.9	205.6	37.0	26.1	22.7	21.4	21.0	15.3	10.2	8.8	8.1
60°	1010.6	185.6	33.5	22.4	19.3	17.3	14.3	8.5	5.1	3.8	3.8
62.5°	934.7	157.5	29.8	18.3	15.9	13.2	7.4	4.8	2.3	1.3	1.0
65°	836.1	132.5	26.8	14.6	12.5	8.5	4.1	3.1	1.0	0.0	0.0
67.5°	621.7	98.3	22.7	11.5	9.5	5.4	2.7	1.7	0.3	0.0	0.0
70°	288.0	60.0	19.3	8.8	6.8	4.1	2.0	1.0	0.0	0.0	0.0
72.5°	82.7	37.6	15.9	6.4	4.8	3.4	1.7	0.7	0.3	0.0	0.0
75°	28.8	30.1	11.8	4.8	3.8	2.3	1.3	0.7	0.3	0.0	0.0
77.5°	17.3	24.4	7.4	4.1	3.1	2.0	1.3	0.7	0.3	0.3	0.0
80°	9.8	16.3	4.8	3.4	2.7	1.7	1.0	0.7	0.3	0.3	0.0
82.5°	5.4	7.8	3.8	3.1	2.3	1.7	1.0	0.7	0.3	0.3	0.3
85°	4.4	4.1	3.1	2.7	2.0	1.3	1.0	0.3	0.0	0.0	0.0
87.5°	3.4	2.7	2.7	2.7	2.0	1.3	1.0	0.3	0.0	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)