

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: P651169

Luminaire Tested: **GALN-SA1D-840-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651169
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-840-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 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: 5393.3 lumens
Efficiency: N/A
Efficacy: 83.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

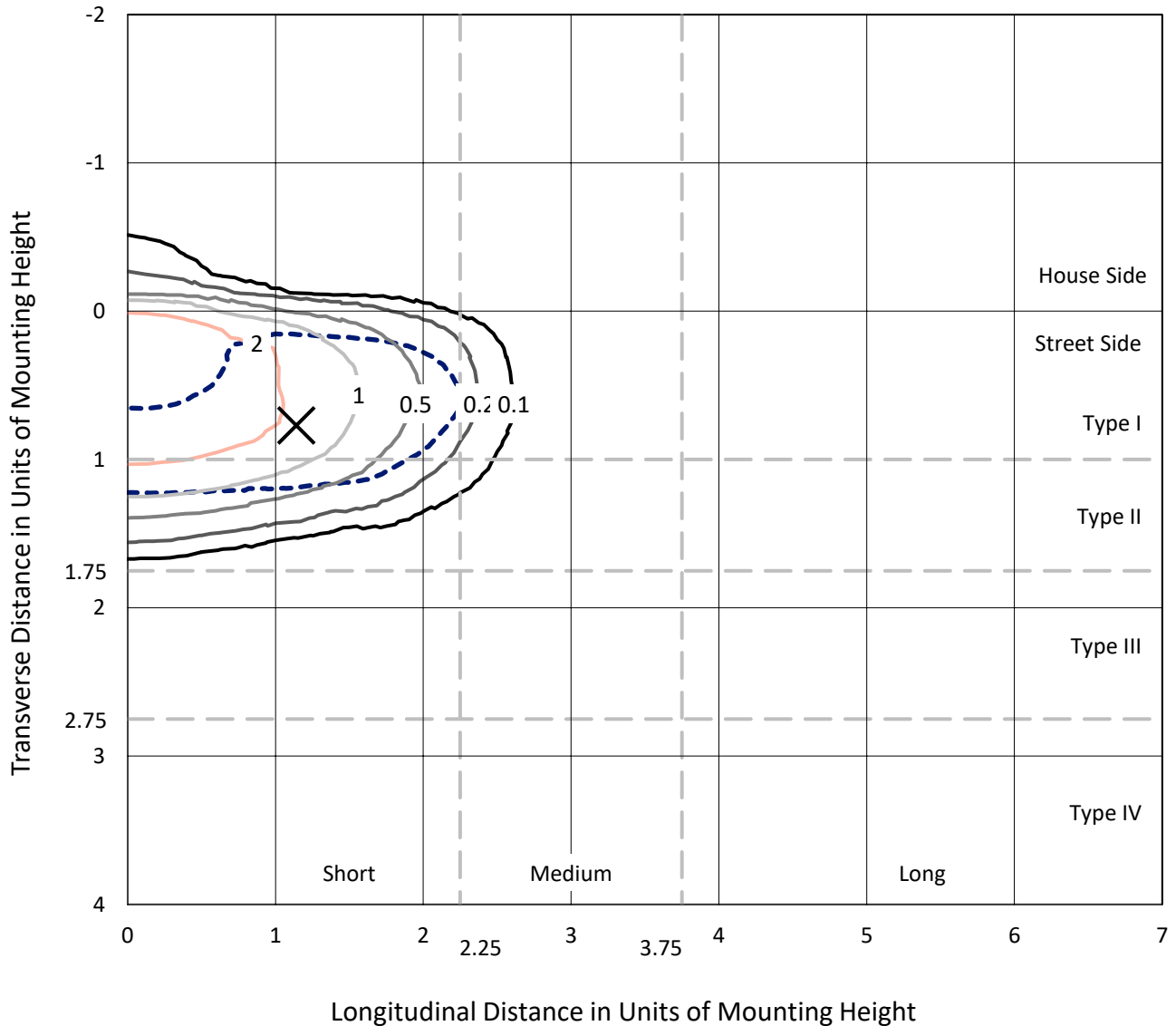
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

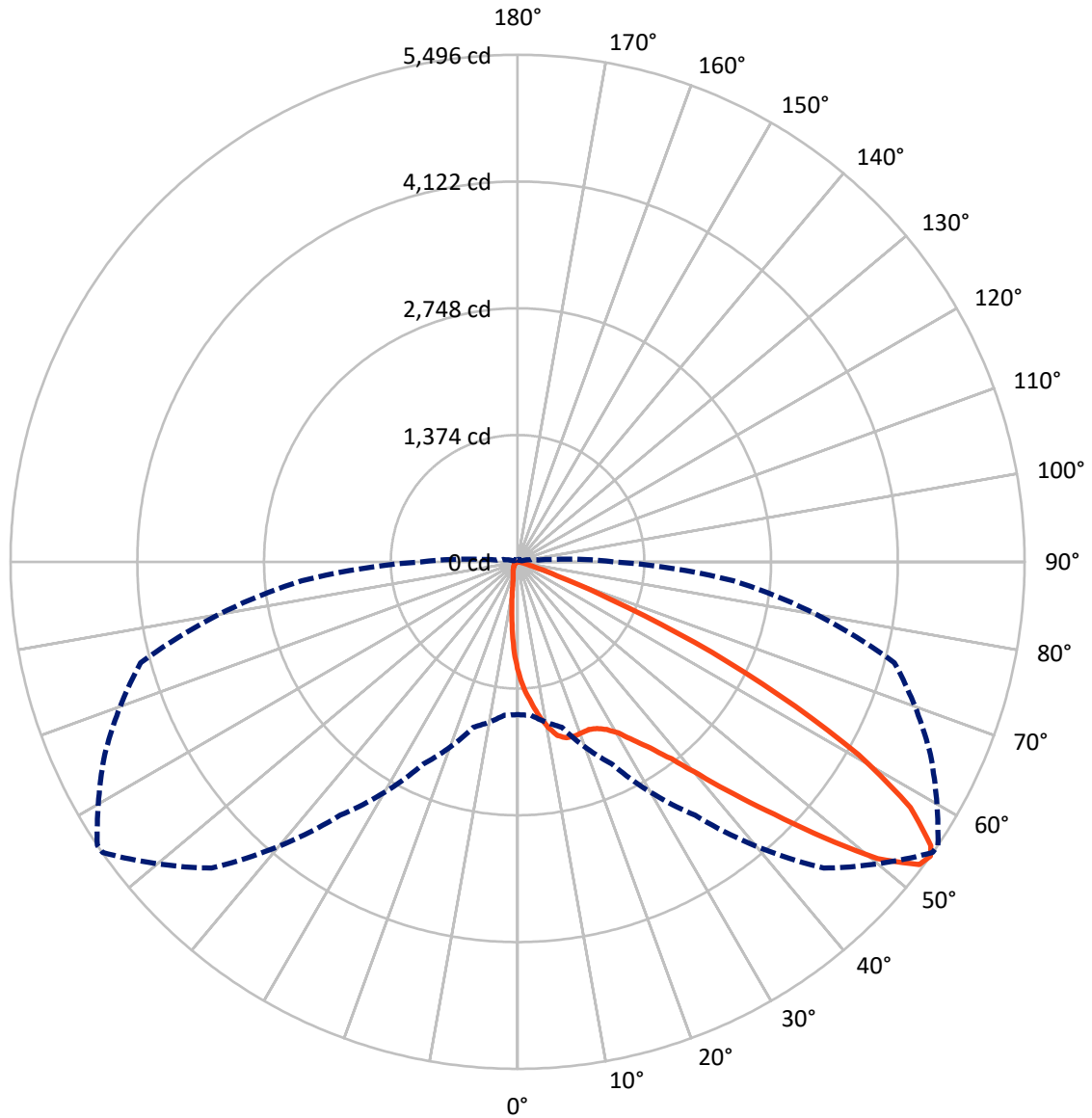
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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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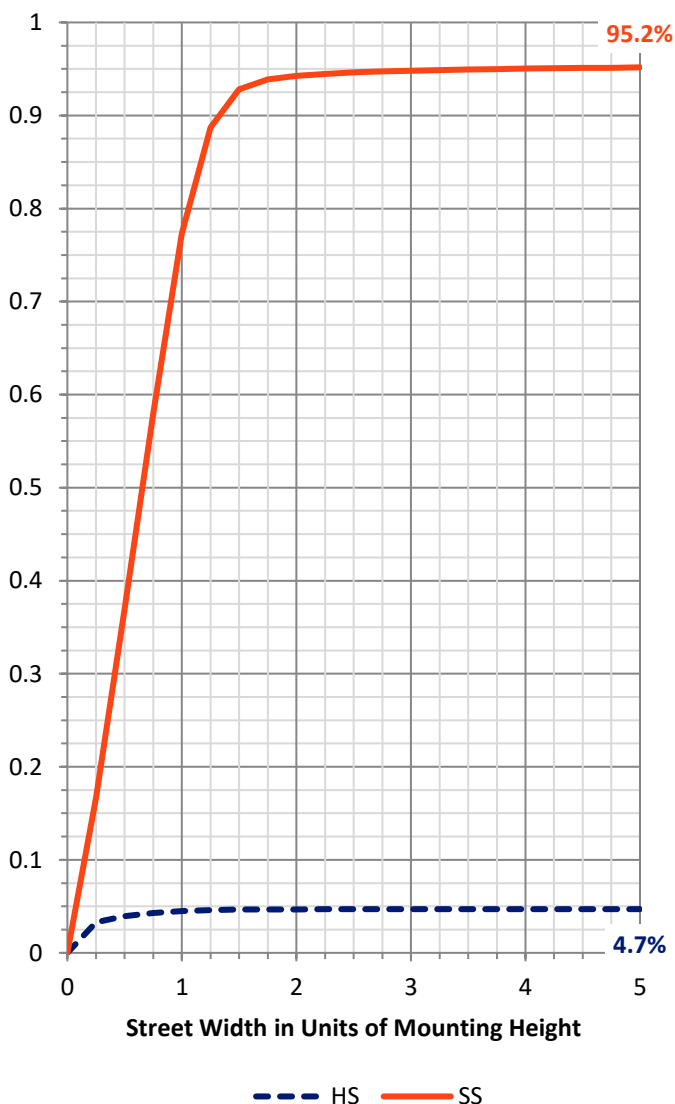
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	255.0	0.0	255.0
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	5138.3	0.0	5138.3
	% Fixture	95.3	0.0	95.3
Total	Lumens	5393.3	0.0	5393.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.9	2.0
10°-20°	286.2	5.3
20°-30°	495.7	9.2
30°-40°	855.7	15.9
40°-50°	1456.5	27.0
50°-60°	1441.4	26.7
60°-70°	657.9	12.2
70°-80°	84.5	1.6
80°-90°	9.5	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°	5393.3	100.0
0°-180°	5393.3	100.0

Coefficient of Utilization



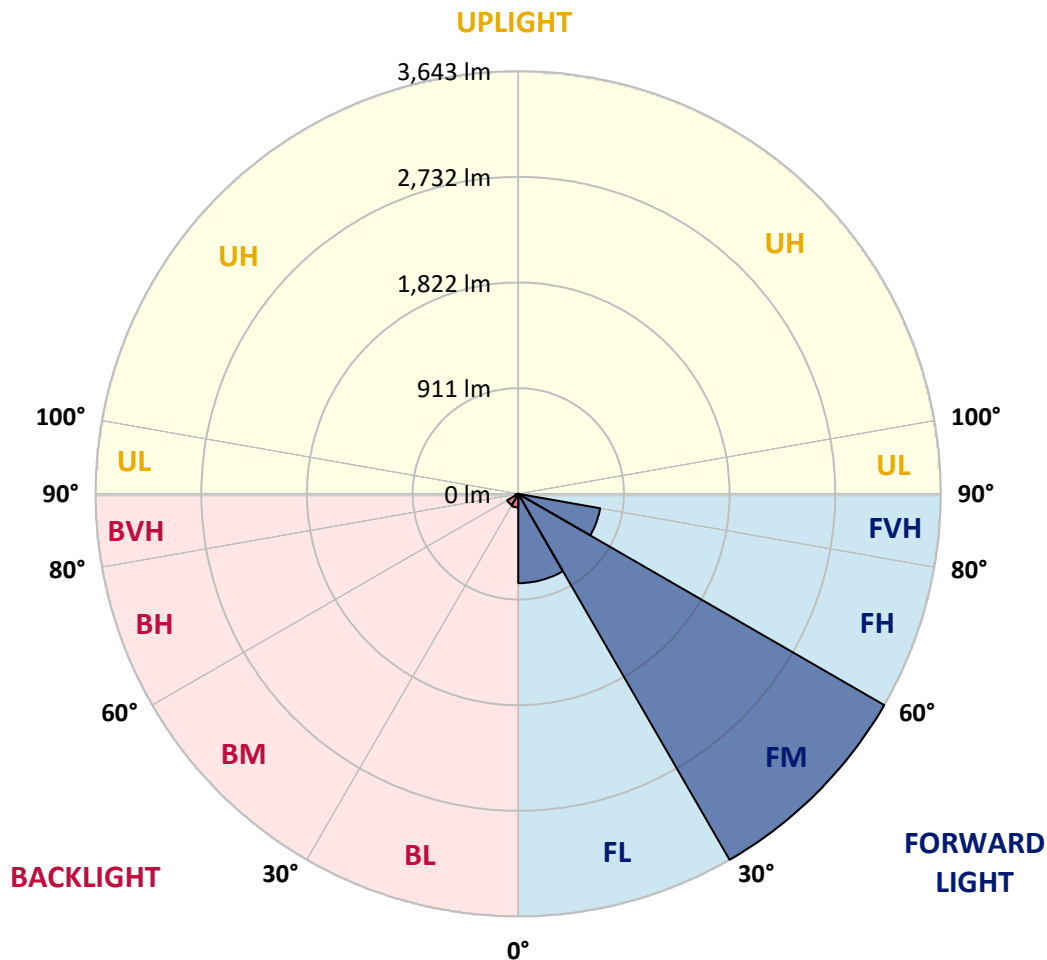
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	769.9	14.3			
FM (30°-60°)	3643.1	67.5			
FH (60°-80°)	716.8	13.3			G1/1800
FVH (80°-90°)	8.5	0.2			G0/10
BL (0°-30°)	117.9	2.2	B1/500		
BM (30°-60°)	110.5	2.0	B0/220		
BH (60°-80°)	25.5	0.5	B0/110		G0/110
BVH (80°-90°)	1.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1198.3	1198.3	1198.3	1198.3	1198.3	1198.3	1198.3	1198.3	1198.3	1198.3	1198.3
2.5°	1522.8	1512.3	1497.7	1486.5	1459.9	1421.6	1381.3	1381.3	1342.3	1288.2	1232.8
5°	1756.4	1749.5	1735.3	1706.2	1676.4	1622.9	1541.7	1527.6	1458.0	1359.8	1256.5
7.5°	1851.4	1854.7	1855.4	1847.8	1833.5	1780.8	1700.4	1690.6	1579.6	1447.9	1287.4
10°	1760.5	1776.4	1792.1	1823.7	1868.5	1881.2	1835.7	1825.6	1716.4	1537.0	1320.9
12.5°	1625.1	1633.8	1642.6	1692.4	1782.2	1885.3	1932.9	1932.5	1840.1	1625.8	1363.4
15°	1562.2	1569.7	1570.5	1592.7	1670.6	1820.5	1974.4	1979.9	1961.0	1735.3	1409.3
17.5°	1575.2	1581.4	1576.3	1581.8	1622.5	1749.1	1969.6	1987.9	2058.9	1840.4	1450.8
20°	1660.7	1672.7	1653.1	1637.8	1650.2	1730.2	1953.6	1979.1	2128.0	1943.1	1488.7
22.5°	1814.3	1820.8	1796.1	1754.2	1732.4	1769.9	1949.3	1974.4	2186.9	2027.1	1510.4
25°	1984.9	1982.7	1955.5	1908.6	1862.6	1849.9	1978.0	2000.6	2235.6	2102.8	1517.0
27.5°	2155.6	2162.1	2116.3	2058.1	2003.2	1970.0	2042.5	2059.2	2290.6	2189.0	1525.0
30°	2353.9	2343.4	2298.2	2231.7	2168.7	2122.5	2146.1	2150.9	2366.3	2303.3	1546.1
32.5°	2611.9	2582.8	2532.3	2415.8	2370.6	2292.4	2298.2	2304.1	2458.3	2416.5	1571.6
35°	2961.9	2960.5	2861.5	2704.7	2594.8	2497.7	2472.2	2476.9	2597.7	2584.6	1628.0
37.5°	3383.3	3389.1	3276.4	3118.4	2916.1	2761.8	2709.4	2710.1	2809.4	2816.8	1713.9
40°	3726.5	3741.8	3674.4	3567.8	3368.0	3126.8	3038.7	3030.7	3107.2	3098.1	1836.5
42.5°	3874.2	3888.4	3913.5	3950.6	3840.7	3641.7	3433.9	3444.8	3468.1	3404.5	1974.0
45°	3801.7	3824.4	3922.9	4152.2	4255.5	4188.6	3940.8	3902.6	3803.9	3737.4	2112.3
47.5°	3500.2	3555.1	3719.9	4101.6	4463.3	4689.7	4512.8	4462.2	4140.2	3980.5	2200.4
50°	3004.1	3007.4	3237.0	3725.0	4355.6	5005.8	5096.8	5059.0	4453.5	4116.9	2244.7
52.5°	2177.8	2249.5	2459.8	3024.9	3889.1	4957.8	5469.0	5453.4	4776.6	4186.8	2308.8
54°	1655.7	1669.5	1856.5	2417.2	3353.2	4694.0	5492.0	5495.6	4937.1	4229.0	2346.6
55°	1357.3	1324.2	1520.6	2059.2	2987.4	4460.7	5417.0	5434.5	5009.1	4250.8	2374.6
57.5°	643.4	643.7	794.0	1086.2	1871.1	3463.7	4958.9	5020.8	5017.2	4288.3	2460.9
60°	325.6	327.8	361.0	501.4	924.3	2302.6	4100.1	4247.6	4631.1	4293.7	2489.3
62.5°	227.8	225.2	219.8	241.3	389.0	1170.3	3052.6	3180.7	3934.6	4086.0	2399.0
65°	195.0	189.6	174.3	171.1	196.5	466.2	1901.2	2110.2	3004.1	3538.0	2142.1
67.5°	166.7	164.5	150.6	142.3	139.0	203.0	981.0	1090.9	2053.4	2543.1	1622.5
70°	141.5	140.4	132.1	121.5	112.4	121.5	363.9	450.9	1144.3	1369.2	765.6
72.5°	115.0	116.1	117.6	104.0	94.6	86.2	155.4	180.8	478.9	489.4	267.8
75°	100.8	99.7	99.7	90.6	79.0	64.1	85.5	92.1	146.7	136.1	62.2
77.5°	71.0	68.4	80.1	74.6	65.9	45.5	48.8	51.6	60.8	52.1	29.1
80°	49.1	49.1	51.3	66.9	59.3	33.1	29.9	32.0	36.0	30.9	16.7
82.5°	27.7	28.3	33.5	35.7	34.6	22.2	19.7	20.0	24.1	21.1	10.5
85°	3.3	5.5	19.3	18.9	14.2	9.8	10.9	11.3	14.9	13.1	6.2
87.5°	0.3	0.8	4.0	5.1	3.6	4.0	4.0	4.0	5.1	5.8	4.4
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°	1198.3	1198.3	1198.3	1198.3	1198.3	1198.3	1198.3	1198.3	1198.3	1198.3	1198.3
2.5°	1203.0	1175.3	1109.4	1033.1	984.3	905.0	838.0	789.6	777.6	754.3	761.2
5°	1201.5	1144.0	1009.8	867.8	716.4	603.7	519.7	453.4	424.3	405.0	391.6
7.5°	1202.2	1112.4	896.9	670.9	490.1	379.5	301.7	261.3	234.3	223.0	224.5
10°	1204.4	1076.7	766.0	497.0	330.8	245.2	197.6	178.3	169.2	167.8	167.4
12.5°	1209.5	1037.8	640.8	368.9	231.4	178.3	160.1	153.6	150.6	150.6	149.5
15°	1215.0	994.8	536.7	274.3	178.3	153.2	144.8	141.5	139.7	139.7	139.4
17.5°	1215.0	945.4	439.6	212.9	153.6	140.8	134.3	129.9	128.4	128.4	128.1
20°	1207.3	887.8	353.3	171.4	139.4	129.2	122.6	117.9	116.1	115.4	115.0
22.5°	1180.8	811.1	281.3	147.3	127.7	119.0	110.6	105.1	103.7	102.9	103.4
25°	1133.5	724.4	222.7	129.5	117.2	106.6	99.3	95.4	93.9	93.9	94.3
27.5°	1084.7	633.9	176.4	116.1	104.5	94.9	89.1	86.6	86.2	87.3	87.7
30°	1039.6	542.9	143.0	105.1	93.2	85.1	81.2	80.4	80.4	80.8	81.2
32.5°	989.4	463.2	119.7	95.7	84.0	77.1	74.9	74.9	75.7	75.7	76.4
35°	957.7	394.8	105.1	86.6	77.1	71.3	69.9	70.2	71.3	72.7	73.5
37.5°	940.7	340.2	95.7	79.3	70.6	66.6	65.1	65.9	68.4	71.0	71.3
40°	942.1	299.1	88.1	73.2	65.5	61.1	60.0	62.2	64.8	67.3	67.7
42.5°	958.1	268.5	80.8	65.9	61.1	54.9	54.6	56.8	57.9	60.4	60.8
45°	977.0	246.3	73.2	58.2	53.2	47.7	48.0	49.9	51.3	55.3	56.0
47.5°	982.8	231.0	64.4	49.5	43.6	41.9	42.2	43.3	46.2	49.9	50.2
50°	989.4	221.6	56.0	41.9	37.1	36.8	37.1	37.8	39.7	41.1	40.8
52.5°	1017.4	221.3	49.1	36.4	31.6	32.4	32.7	32.4	30.9	28.8	28.0
54°	1043.6	222.4	45.8	33.8	29.1	30.2	29.9	28.0	24.4	22.2	21.1
55°	1064.7	223.5	44.1	32.0	27.7	28.0	28.3	24.7	20.0	17.8	17.1
57.5°	1106.2	220.8	39.7	28.0	24.4	23.0	22.5	16.4	10.9	9.4	8.7
60°	1085.5	199.4	36.0	24.1	20.8	18.6	15.3	9.1	5.5	4.0	4.0
62.5°	1003.9	169.2	32.0	19.7	17.1	14.2	8.0	5.1	2.5	1.4	1.1
65°	898.0	142.3	28.8	15.6	13.5	9.1	4.4	3.3	1.1	0.0	0.0
67.5°	667.8	105.5	24.4	12.4	10.2	5.8	2.9	1.9	0.3	0.0	0.0
70°	309.3	64.4	20.8	9.4	7.3	4.4	2.2	1.1	0.0	0.0	0.0
72.5°	88.8	40.4	17.1	6.9	5.1	3.6	1.9	0.8	0.3	0.0	0.0
75°	30.9	32.4	12.7	5.1	4.0	2.5	1.4	0.8	0.3	0.0	0.0
77.5°	18.6	26.2	8.0	4.4	3.3	2.2	1.4	0.8	0.3	0.3	0.0
80°	10.5	17.5	5.1	3.6	2.9	1.9	1.1	0.8	0.3	0.3	0.0
82.5°	5.8	8.4	4.0	3.3	2.5	1.9	1.1	0.8	0.3	0.3	0.3
85°	4.7	4.4	3.3	2.9	2.2	1.4	1.1	0.3	0.0	0.0	0.0
87.5°	3.6	2.9	2.9	2.9	2.2	1.4	1.1	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)