

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: P300960

Luminaire Tested: **GLNA-AF-01-LED-E1-SL4-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300960
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-01-LED-E1-SL4-7027-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V
Square Wide OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3377.7 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G1

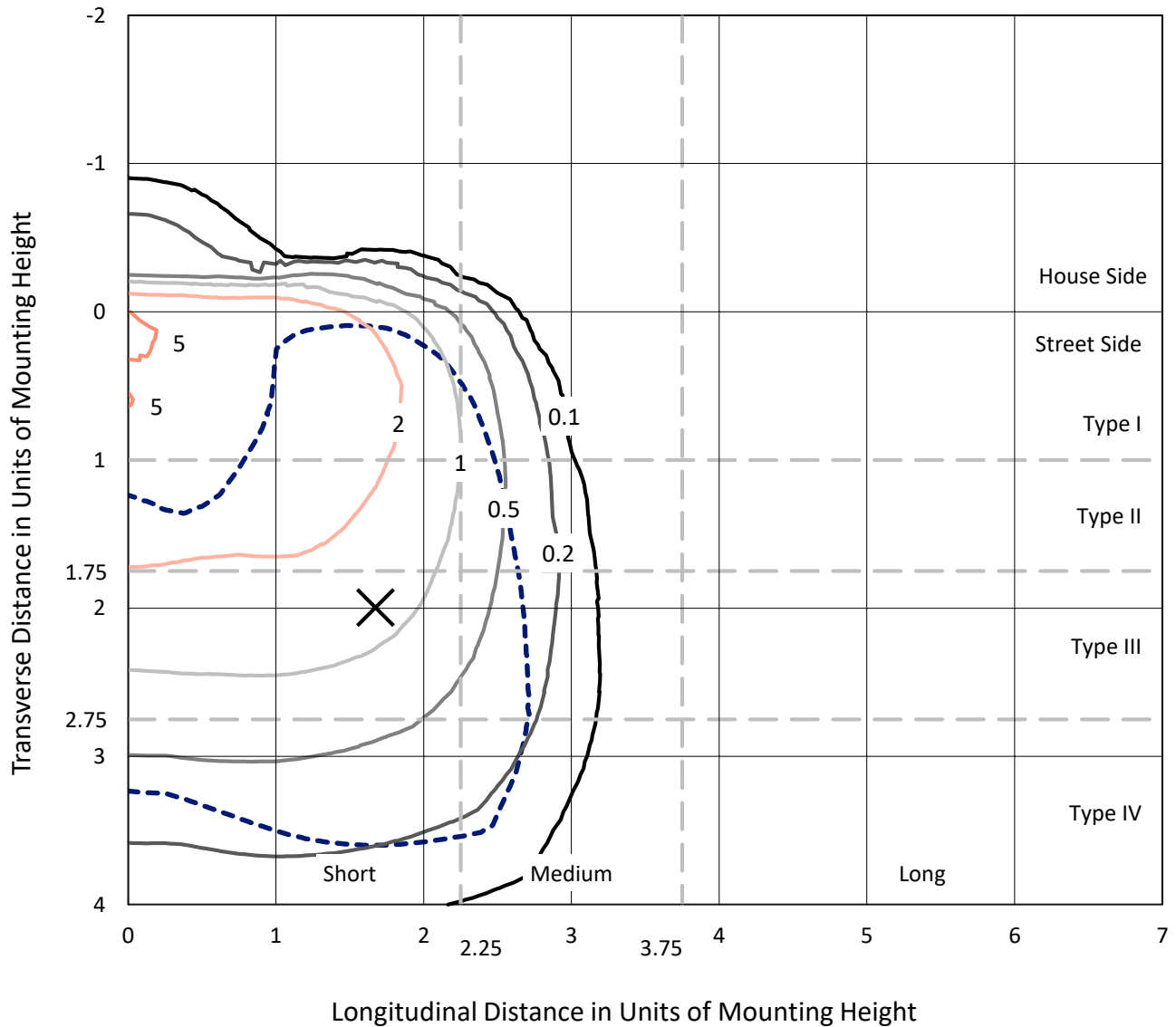
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

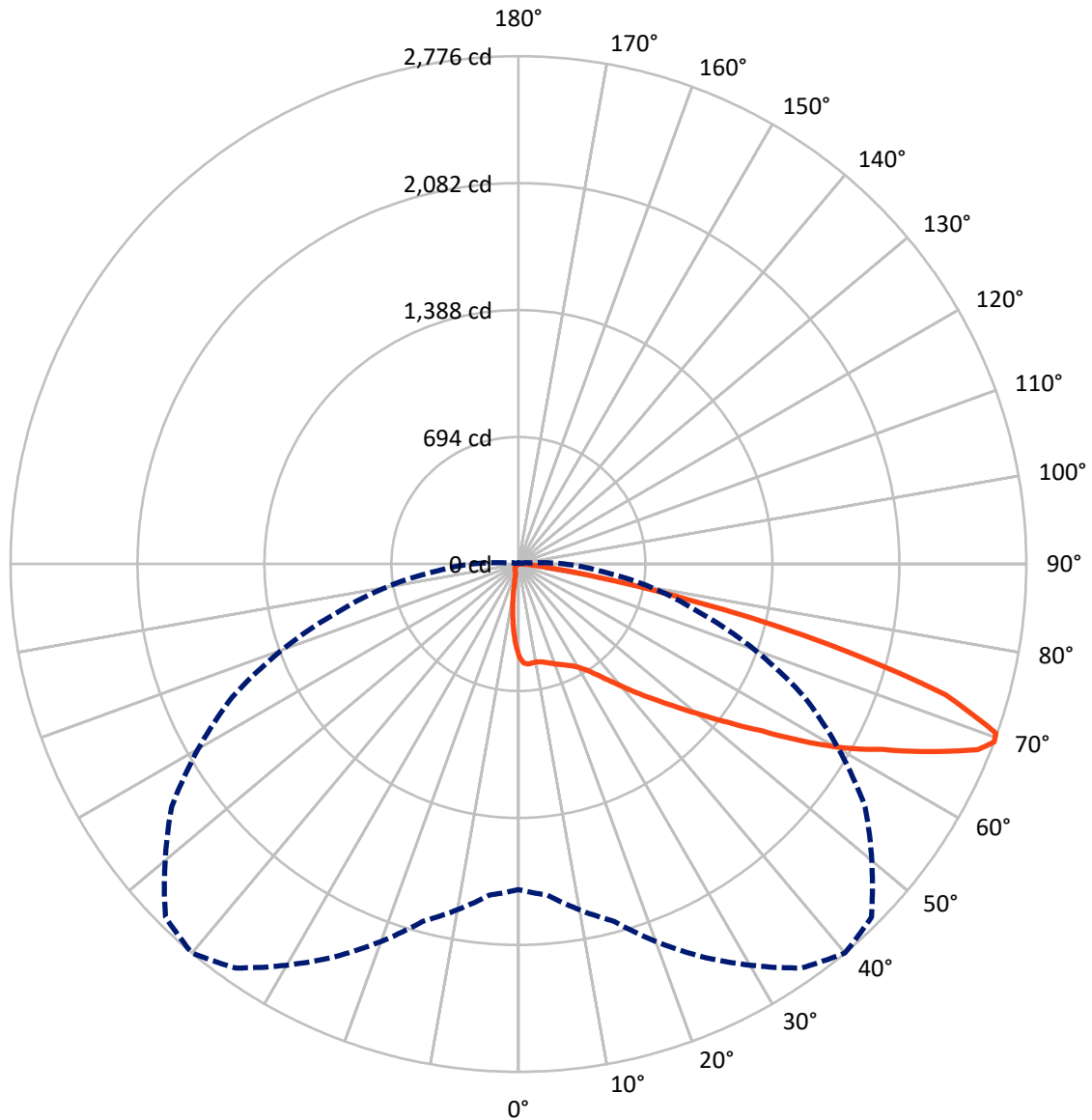
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.5 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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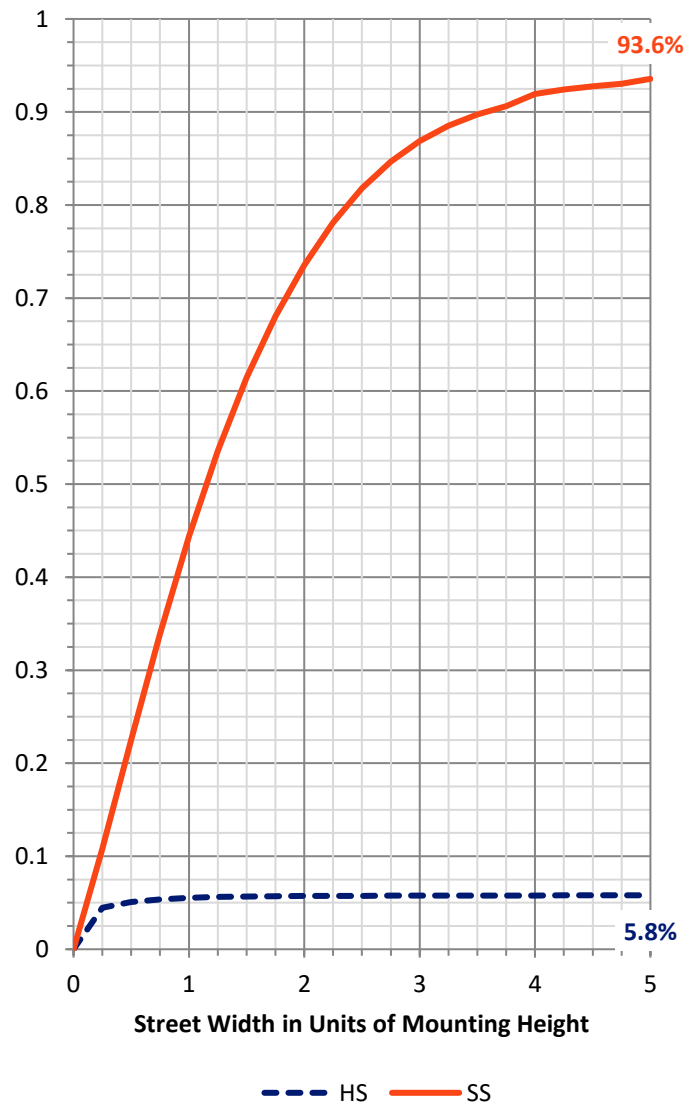
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	197.6	0.0	197.6
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	3180.1	0.0	3180.1
	% Fixture	94.2	0.0	94.2
Total	Lumens	3377.7	0.0	3377.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.9	1.2
10°-20°	100.6	3.0
20°-30°	169.5	5.0
30°-40°	277.4	8.2
40°-50°	480.4	14.2
50°-60°	756.7	22.4
60°-70°	988.2	29.3
70°-80°	508.9	15.1
80°-90°	55.0	1.6
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°	3377.7	100.0
0°-180°	3377.7	100.0



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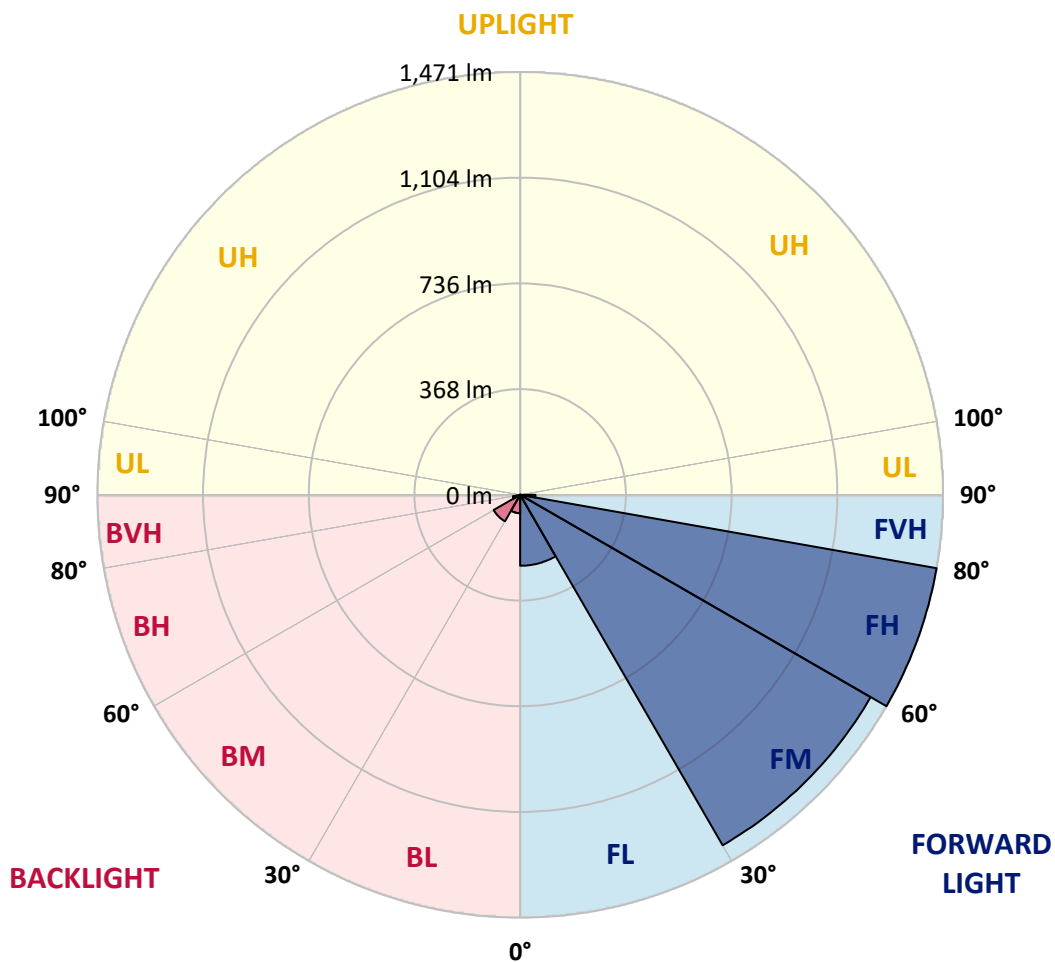
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	247.0	7.3			
FM	(30°-60°)	1408.3	41.7			
FH	(60°-80°)	1471.5	43.6			G1/1800
FVH	(80°-90°)	53.3	1.6			G1/100
BL	(0°-30°)	64.0	1.9	B0/110		
BM	(30°-60°)	106.2	3.1	B0/220		
BH	(60°-80°)	25.6	0.8	B0/110		G0/110
BVH	(80°-90°)	1.7	0.1			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	504.6	504.6	504.6	504.6	504.6	504.6	504.6	504.6	504.6	504.6	504.6
2.5°	554.1	551.1	549.3	546.9	543.9	541.2	540.2	532.8	525.8	516.1	505.0
5°	564.4	563.4	560.1	556.9	553.3	549.3	547.1	538.2	528.2	514.1	494.8
7.5°	565.4	564.2	560.1	555.7	550.7	545.9	542.0	533.2	523.9	509.7	486.1
10°	563.8	562.3	559.3	554.5	548.3	543.7	539.8	531.4	523.5	510.7	484.5
12.5°	561.9	560.5	559.1	556.7	551.3	548.1	544.9	536.8	529.8	518.9	490.4
15°	563.8	563.0	564.6	563.6	560.5	557.7	554.5	547.3	540.8	531.8	501.0
17.5°	571.4	571.4	576.4	577.0	574.2	570.2	565.6	558.3	552.9	545.3	513.7
20°	589.3	588.7	595.1	596.3	589.5	583.3	576.4	567.6	563.4	558.5	526.2
22.5°	620.1	617.2	621.1	619.9	606.4	596.7	588.3	577.4	575.2	573.0	540.0
25°	660.1	658.5	661.1	649.2	625.5	612.4	602.4	590.1	590.1	592.3	555.7
27.5°	718.2	712.1	703.3	682.4	646.8	630.1	619.2	606.2	609.6	617.8	576.4
30°	777.7	771.0	750.7	718.6	672.7	655.2	642.6	628.9	636.9	652.0	604.2
32.5°	836.4	828.9	800.2	759.6	709.9	692.4	680.2	665.1	678.6	703.9	644.8
35°	893.3	886.6	853.5	805.6	759.4	744.9	733.6	720.6	737.9	773.3	702.1
37.5°	957.2	950.0	909.6	857.7	819.5	809.0	800.8	787.7	817.9	869.8	781.9
40°	1035.8	1023.6	969.1	917.4	889.1	884.0	878.4	876.6	923.4	995.2	888.3
42.5°	1125.9	1105.8	1031.4	980.3	965.5	969.1	967.7	975.7	1055.5	1151.2	1017.7
45°	1216.0	1190.0	1100.8	1047.5	1049.5	1062.2	1070.0	1102.2	1221.0	1330.2	1157.1
47.5°	1292.4	1266.8	1167.3	1120.1	1144.2	1169.1	1190.4	1251.4	1391.1	1506.3	1265.4
50°	1357.7	1333.6	1237.9	1199.9	1254.2	1294.4	1329.0	1419.2	1574.1	1640.4	1341.4
52.5°	1411.2	1395.1	1311.1	1291.4	1379.8	1438.7	1489.4	1597.6	1736.1	1749.4	1400.5
55°	1463.3	1451.8	1389.7	1400.1	1527.4	1607.6	1671.8	1786.8	1875.6	1840.3	1457.2
57.5°	1523.2	1512.7	1479.4	1538.1	1721.4	1822.4	1892.3	1954.4	1998.5	1933.1	1510.7
60°	1584.3	1578.3	1579.1	1691.3	1944.2	2041.1	2079.7	2095.8	2119.1	2020.6	1513.7
62.5°	1642.6	1654.1	1693.1	1861.8	2157.5	2231.9	2251.4	2267.3	2239.9	2034.5	1398.5
65°	1741.3	1760.0	1853.1	2090.0	2392.1	2471.8	2491.9	2437.4	2259.0	1855.1	1137.6
67.5°	1789.6	1823.8	1989.8	2302.7	2619.7	2708.2	2700.8	2448.4	2027.2	1414.6	730.0
69°	1779.5	1815.9	2021.4	2367.8	2695.3	2775.6	2728.3	2313.1	1727.1	1024.8	448.2
70°	1739.7	1776.5	2005.1	2365.4	2705.0	2768.5	2677.2	2146.1	1460.3	749.3	280.3
72.5°	1452.8	1484.6	1780.1	2138.0	2491.9	2440.2	2239.7	1486.8	711.5	204.1	63.1
75°	894.3	912.0	1277.3	1610.6	1882.1	1749.4	1492.2	739.7	212.1	57.7	35.0
77.5°	472.5	480.5	699.3	949.4	1193.1	987.2	764.8	288.5	97.7	36.2	25.3
80°	279.3	285.3	376.6	434.1	516.3	431.3	305.8	177.1	70.0	22.7	22.5
82.5°	159.8	163.7	273.0	241.3	203.5	173.7	152.2	167.9	42.0	15.3	23.3
85°	58.7	59.5	153.6	183.6	121.0	72.0	75.6	139.1	11.3	9.7	18.3
87.5°	27.3	26.7	79.0	112.4	70.8	45.6	58.9	30.6	4.4	6.2	5.0
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°	504.6	504.6	504.6	504.6	504.6	504.6	504.6	504.6	504.6	504.6	504.6
2.5°	498.6	491.2	477.7	463.8	449.8	438.9	428.2	419.8	417.0	411.8	412.2
5°	483.3	469.7	441.5	413.0	383.2	358.7	335.6	316.9	307.8	298.6	298.6
7.5°	470.1	450.2	406.1	359.7	311.6	271.2	234.8	207.5	192.4	180.3	180.1
10°	465.0	438.1	376.6	310.0	243.1	188.0	144.8	117.0	102.7	93.5	93.1
12.5°	467.3	433.9	353.9	264.2	180.1	120.8	83.8	65.9	59.9	57.1	57.1
15°	473.7	432.7	331.1	219.4	127.3	75.6	55.7	50.9	50.5	50.5	50.5
17.5°	481.5	433.1	307.8	175.7	86.7	54.1	48.1	47.4	47.9	47.9	47.9
20°	489.6	433.3	282.7	135.3	61.1	47.0	45.2	45.0	45.4	45.4	45.6
22.5°	499.4	434.3	257.6	101.1	50.5	44.4	43.0	43.0	43.2	43.2	43.0
25°	510.7	436.3	231.4	75.0	46.0	42.6	41.4	41.2	41.4	41.2	41.0
27.5°	524.8	439.1	202.3	58.7	44.0	40.8	39.8	39.8	39.6	39.4	39.2
30°	542.4	442.3	169.5	49.9	42.0	39.2	38.2	38.0	37.8	37.4	37.4
32.5°	569.4	449.4	137.1	45.2	39.8	37.0	36.2	36.2	35.8	35.4	35.2
35°	610.8	463.2	108.2	42.4	37.4	34.6	33.6	33.6	33.2	33.0	32.8
37.5°	668.1	484.3	84.0	39.8	35.0	32.0	31.0	30.8	30.4	30.0	29.8
40°	744.3	510.5	66.1	37.4	32.6	29.4	28.5	28.1	27.3	26.7	26.7
42.5°	840.0	540.2	53.7	34.8	29.8	26.9	26.3	25.7	24.3	23.7	23.5
45°	940.1	567.0	45.4	31.8	26.9	24.5	24.1	23.1	21.3	20.7	20.7
47.5°	1012.3	573.2	40.0	29.0	24.3	21.9	21.7	19.9	18.3	17.9	17.7
50°	1057.3	560.9	35.6	26.1	21.9	19.5	18.9	16.7	15.7	15.3	15.1
52.5°	1087.7	539.0	32.0	23.7	19.7	17.3	15.9	14.3	13.5	13.1	13.1
55°	1112.0	508.1	28.3	21.5	17.9	15.5	13.5	12.3	11.5	11.1	11.1
57.5°	1118.9	466.0	24.7	19.7	16.1	13.7	11.5	10.7	9.7	9.4	9.4
60°	1069.2	390.2	21.9	17.5	14.5	11.9	10.1	9.0	8.0	7.8	7.6
62.5°	938.3	302.0	19.3	15.5	12.7	10.3	8.6	7.4	6.6	6.6	6.6
65°	715.8	202.5	16.9	13.5	11.1	8.6	7.4	6.0	5.6	5.6	5.8
67.5°	428.4	110.2	14.5	11.5	9.4	7.2	6.2	5.2	5.0	5.2	5.2
69°	251.1	64.7	13.1	10.3	8.2	6.4	5.4	4.6	5.0	5.2	5.2
70°	155.0	43.6	12.1	9.2	7.4	5.8	5.0	4.4	4.8	5.0	5.0
72.5°	43.2	22.5	9.7	7.2	6.0	4.8	4.0	4.0	4.6	4.8	4.8
75°	28.1	16.7	7.4	5.4	4.6	3.8	3.4	3.8	4.4	4.6	4.6
77.5°	23.3	13.7	6.0	4.4	3.8	3.6	3.2	3.4	4.0	4.2	4.2
80°	21.3	9.7	4.8	4.0	3.4	3.2	3.0	2.8	3.6	3.8	3.8
82.5°	20.3	7.6	4.2	3.6	3.2	2.8	2.6	2.8	3.2	3.4	3.6
85°	12.7	5.0	3.8	3.4	2.8	2.6	2.6	2.6	3.0	3.2	3.2
87.5°	4.6	4.0	3.4	2.8	2.4	2.4	2.4	2.4	2.6	3.0	3.0
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)