

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: P652191

Luminaire Tested: **GALN-SA1B-840-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652191
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-SA1B-840-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 800mA 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: 2892.2 lumens
Efficiency: N/A
Efficacy: 65.7 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

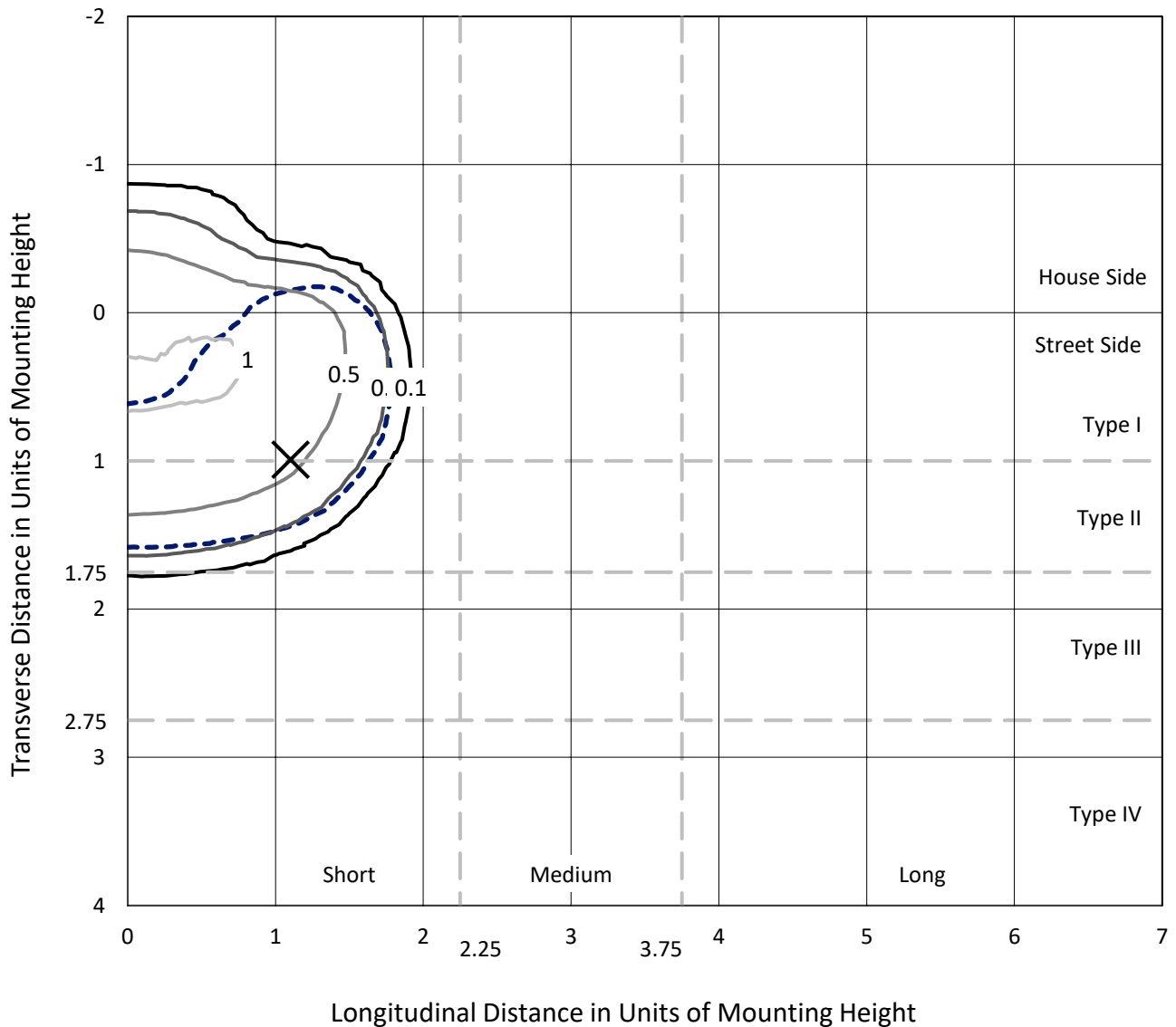
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

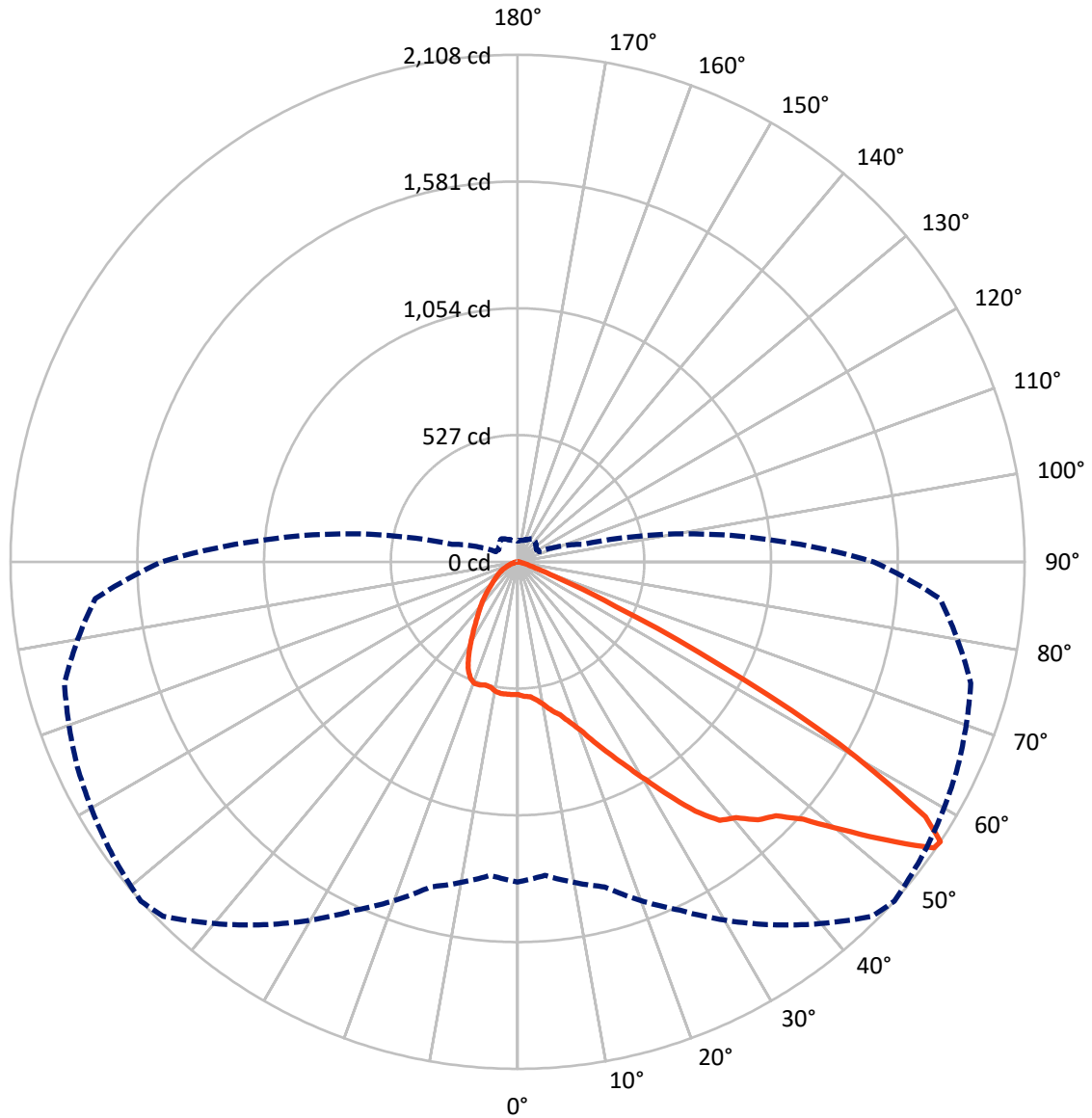
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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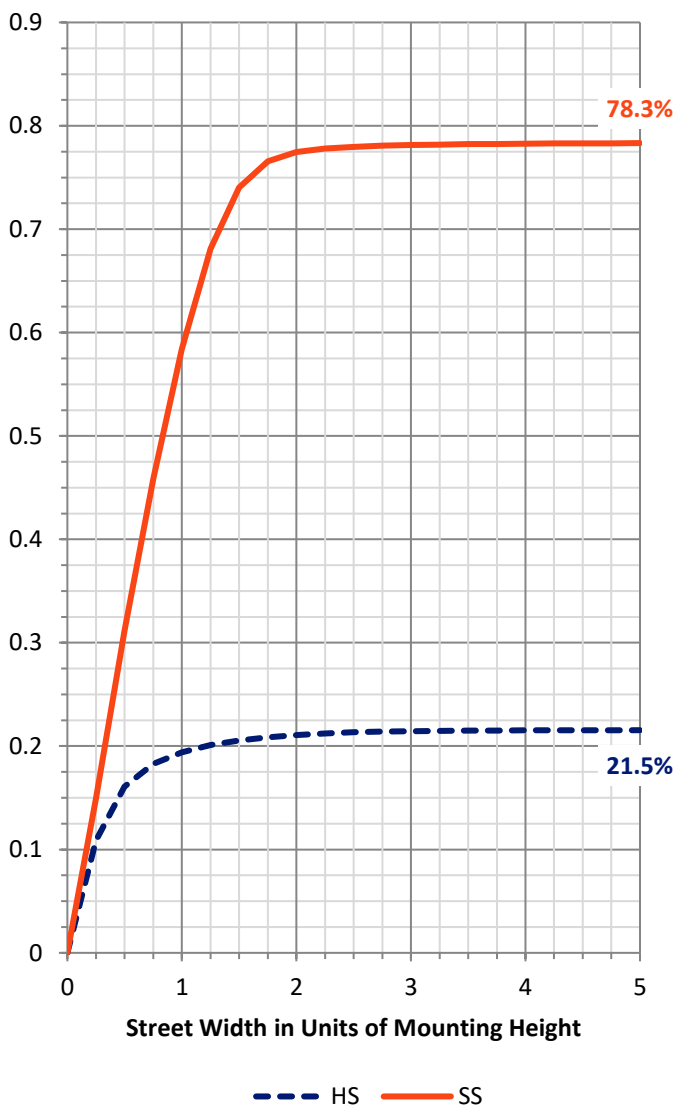
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	629.0	0.0	629.0
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	2263.2	0.0	2263.2
	% Fixture	78.3	0.0	78.3
Total	Lumens	2892.2	0.0	2892.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.8	1.9
10°-20°	172.0	5.9
20°-30°	311.9	10.8
30°-40°	490.0	16.9
40°-50°	714.8	24.7
50°-60°	861.2	29.8
60°-70°	252.1	8.7
70°-80°	32.0	1.1
80°-90°	4.5	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°	2892.2	100.0
0°-180°	2892.2	100.0

Coefficient of Utilization

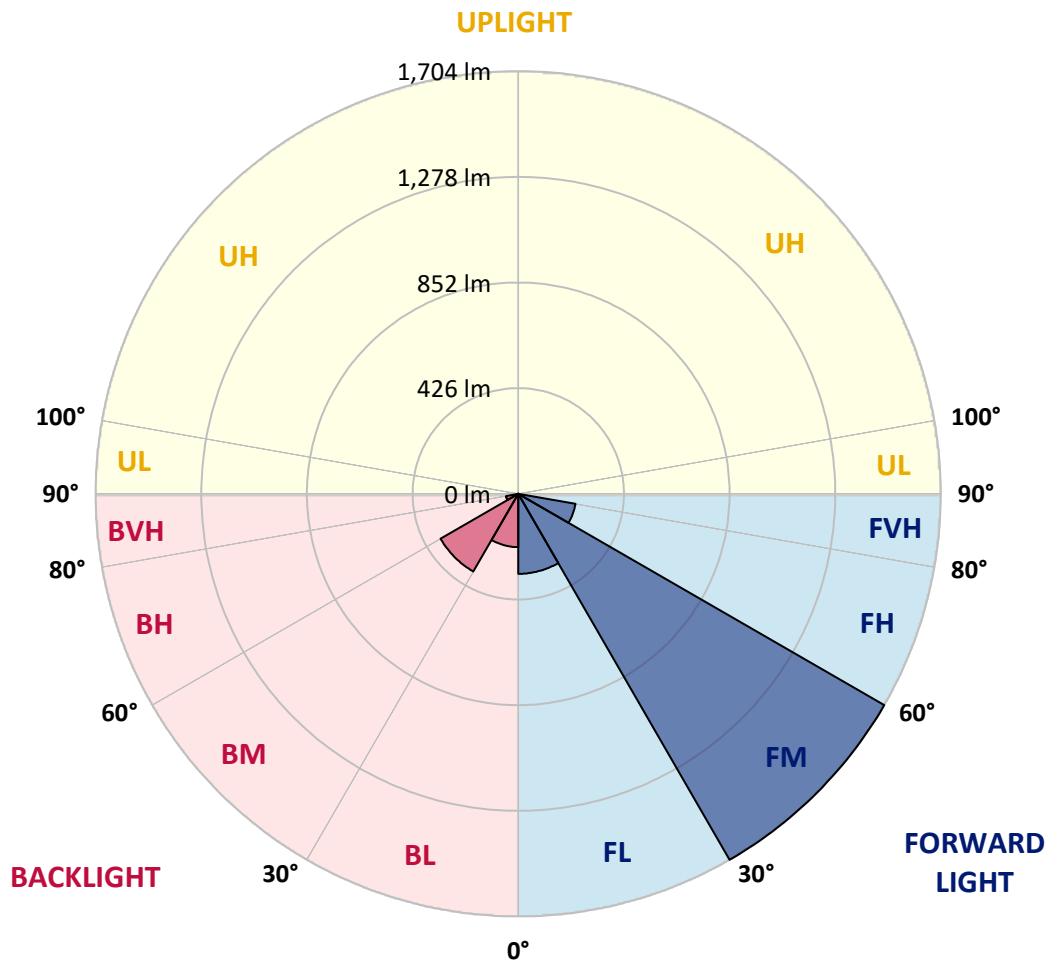


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	322.7	11.2			
FM (30°-60°)	1704.1	58.9			
FH (60°-80°)	234.1	8.1			G0/660
FVH (80°-90°)	2.2	0.1			G0/10
BL (0°-30°)	215.0	7.4	B1/500		
BM (30°-60°)	361.8	12.5	B1/1000		
BH (60°-80°)	50.0	1.7	B0/110		G0/110
BVH (80°-90°)	2.2	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°	552.5	552.5	552.5	552.5	552.5	552.5	552.5	552.5	552.5	552.5	552.5
2.5°	562.4	559.8	559.8	555.6	560.3	558.2	559.8	554.6	559.8	551.9	558.2
5°	565.1	565.6	563.5	566.1	566.1	569.3	564.0	568.8	571.4	565.6	563.0
7.5°	578.8	579.8	579.3	577.2	581.4	580.9	580.3	576.7	577.7	575.6	572.4
10°	605.6	605.1	607.7	602.4	599.3	603.0	604.0	598.2	594.0	592.4	582.4
12.5°	644.5	638.2	634.5	629.3	630.8	625.6	635.1	625.1	623.0	613.5	603.5
15°	676.2	675.1	675.7	667.2	657.7	659.8	659.8	654.6	651.4	639.8	625.6
17.5°	740.9	718.8	723.6	713.0	705.1	704.6	699.9	700.9	692.5	668.3	646.6
20°	791.5	782.0	774.6	756.7	744.6	748.3	746.2	740.9	738.3	706.7	676.2
22.5°	836.8	839.9	827.8	823.1	806.3	807.8	812.1	807.3	787.3	754.6	709.3
25°	900.5	896.8	880.5	874.7	858.9	864.7	881.0	877.3	864.7	805.7	735.1
27.5°	975.8	963.2	966.3	940.0	924.8	941.1	960.5	978.9	943.2	865.7	765.6
30°	1029.0	1015.8	1014.8	1013.7	1010.0	1029.0	1051.7	1068.5	1039.6	925.8	816.3
32.5°	1055.3	1058.5	1067.4	1064.3	1096.4	1135.4	1159.1	1183.3	1147.0	1023.7	883.1
35°	1125.3	1105.3	1125.3	1127.4	1160.7	1243.3	1273.4	1331.3	1322.3	1162.3	964.7
37.5°	1166.5	1164.9	1167.5	1187.5	1219.6	1321.8	1364.4	1409.2	1392.4	1245.4	1066.4
40°	1234.3	1238.5	1238.0	1253.3	1288.6	1380.8	1398.2	1434.5	1436.1	1360.7	1215.9
42.5°	1343.4	1326.5	1315.5	1331.3	1380.8	1431.9	1466.6	1459.2	1511.4	1500.8	1408.2
45°	1441.3	1451.3	1435.0	1461.3	1479.2	1506.7	1505.6	1521.4	1587.7	1637.8	1553.0
47.5°	1533.0	1539.3	1547.2	1565.1	1604.0	1608.2	1599.3	1592.4	1684.1	1735.7	1665.1
50°	1587.7	1593.5	1630.4	1662.5	1735.2	1744.7	1750.0	1732.5	1794.7	1800.5	1771.0
52.5°	1573.0	1579.3	1630.9	1736.7	1852.6	1939.5	1923.7	1894.2	1890.5	1913.2	1869.0
55°	1442.4	1436.6	1507.7	1672.5	1889.5	2098.0	2100.1	2069.0	2009.6	1994.3	1854.2
56°	1331.3	1308.6	1399.2	1598.2	1842.0	2084.3	2108.1	2074.8	2019.0	1950.5	1763.1
57.5°	1090.6	1112.2	1202.2	1367.0	1678.3	1985.9	1999.6	1991.7	1949.5	1834.7	1551.4
60°	601.4	639.3	718.8	920.5	1194.9	1524.0	1535.1	1599.3	1607.2	1405.0	1067.4
62.5°	255.4	251.2	333.9	482.4	680.4	920.0	940.5	1006.3	1018.5	809.9	535.5
65°	103.8	109.5	151.1	242.8	359.7	419.2	448.2	469.7	509.7	334.4	197.5
67.5°	68.5	68.0	89.0	138.5	193.8	187.0	187.0	197.5	182.7	136.4	85.3
70°	48.9	50.5	63.7	95.9	120.6	89.5	85.9	82.2	93.2	90.1	69.0
72.5°	32.1	34.2	42.6	57.4	62.7	48.9	48.9	59.0	76.9	72.7	56.3
75°	21.0	21.6	26.3	33.1	31.0	25.3	27.9	39.5	55.8	53.7	40.0
77.5°	14.2	14.7	17.9	21.6	17.4	14.2	15.3	20.0	27.4	27.4	21.0
80°	5.3	5.8	7.4	6.8	7.9	10.0	11.0	13.7	16.3	16.3	14.2
82.5°	0.0	0.5	1.6	3.7	5.8	7.9	8.9	10.5	12.1	13.7	13.2
85°	0.0	0.5	1.6	2.6	4.2	4.7	5.3	3.7	3.2	3.2	2.6
87.5°	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5	1.1	0.5	0.5
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°	552.5	552.5	552.5	552.5	552.5	552.5	552.5	552.5	552.5	552.5	552.5
2.5°	552.5	551.9	551.9	550.3	553.5	551.9	553.0	552.5	545.6	550.9	547.2
5°	558.2	561.9	556.1	555.1	550.9	552.5	552.5	547.2	551.9	551.4	550.3
7.5°	573.0	566.7	560.3	554.0	553.0	551.4	545.6	543.5	547.2	542.9	549.3
10°	579.3	580.3	570.9	562.4	554.6	543.5	535.5	530.8	525.0	531.3	535.0
12.5°	608.2	597.7	581.4	568.2	541.4	530.3	522.4	520.3	530.3	532.4	528.7
15°	618.2	616.6	595.6	566.1	538.2	525.0	526.6	522.4	523.4	518.1	519.2
17.5°	638.7	620.9	596.1	559.3	537.7	534.5	525.0	508.2	498.7	494.5	498.2
20°	661.4	644.0	608.2	561.9	542.4	534.0	502.9	482.4	462.9	452.4	452.9
22.5°	681.5	659.8	603.0	563.0	546.6	511.8	474.5	434.0	409.7	393.3	393.9
25°	705.7	675.1	605.1	565.1	535.5	476.6	422.9	383.4	354.4	343.4	347.0
27.5°	719.3	684.6	616.6	569.8	506.6	426.6	368.6	331.8	314.9	309.7	309.2
30°	760.4	705.7	630.8	560.3	458.2	372.8	319.2	296.5	280.1	275.4	276.4
32.5°	821.5	744.1	649.3	535.5	408.6	324.9	287.0	270.1	254.9	245.9	244.9
35°	872.6	809.9	668.8	497.1	351.3	288.0	264.3	243.3	220.1	210.1	207.5
37.5°	970.0	884.1	664.6	439.2	296.5	260.7	240.1	214.4	194.4	180.6	179.0
40°	1099.5	971.1	644.0	368.6	255.9	236.4	214.4	189.6	164.8	153.2	152.2
42.5°	1257.0	1077.4	606.6	297.0	215.4	212.2	192.3	163.7	141.6	133.2	133.7
45°	1385.0	1168.6	568.8	238.6	185.4	188.6	171.1	144.3	129.0	122.2	122.2
47.5°	1498.7	1230.1	527.6	197.0	157.4	164.8	149.5	133.7	120.6	115.3	114.3
50°	1608.2	1292.8	486.6	159.5	134.3	141.6	140.1	127.4	116.9	110.6	111.1
52.5°	1676.7	1302.8	434.5	130.6	117.4	125.9	131.1	119.5	108.0	104.3	103.2
55°	1593.0	1173.8	337.0	107.4	99.5	110.6	120.6	107.4	98.5	92.2	91.7
56°	1480.3	1049.6	281.7	99.0	94.3	106.4	116.9	102.7	92.7	89.0	86.4
57.5°	1253.3	858.9	208.0	88.0	87.4	99.0	111.1	98.0	86.4	83.2	83.2
60°	781.5	483.4	125.9	73.8	75.9	88.0	100.1	87.4	76.9	76.9	78.5
62.5°	356.0	201.2	76.4	62.7	65.3	75.9	89.0	79.0	73.2	79.0	80.1
65°	121.1	86.9	55.3	50.0	51.6	62.7	76.4	80.1	79.6	83.2	85.3
67.5°	68.0	55.8	46.3	41.6	40.5	46.3	62.7	80.1	76.9	75.3	76.4
70°	57.4	47.4	41.0	36.8	35.3	37.4	48.4	60.6	54.2	52.6	51.6
72.5°	46.3	39.5	35.8	33.1	28.4	24.2	22.1	23.2	25.8	27.4	30.0
75°	32.6	30.0	30.0	26.8	20.5	15.3	12.1	10.0	6.8	4.7	5.3
77.5°	18.4	18.4	18.9	16.3	13.2	10.0	7.4	5.3	2.6	1.1	0.5
80°	12.6	13.7	14.7	13.2	11.0	8.9	6.3	3.7	1.6	0.0	0.0
82.5°	12.6	14.2	15.3	13.2	11.0	8.4	6.3	3.7	1.6	0.5	0.0
85°	2.6	3.2	3.7	4.2	6.3	6.3	4.7	3.2	1.6	0.5	0.0
87.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	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)