

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: P526683

Luminaire Tested: **GALN-SA1C-827-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526683
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-827-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 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: 3123 lumens
Efficiency: N/A
Efficacy: 54.8 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

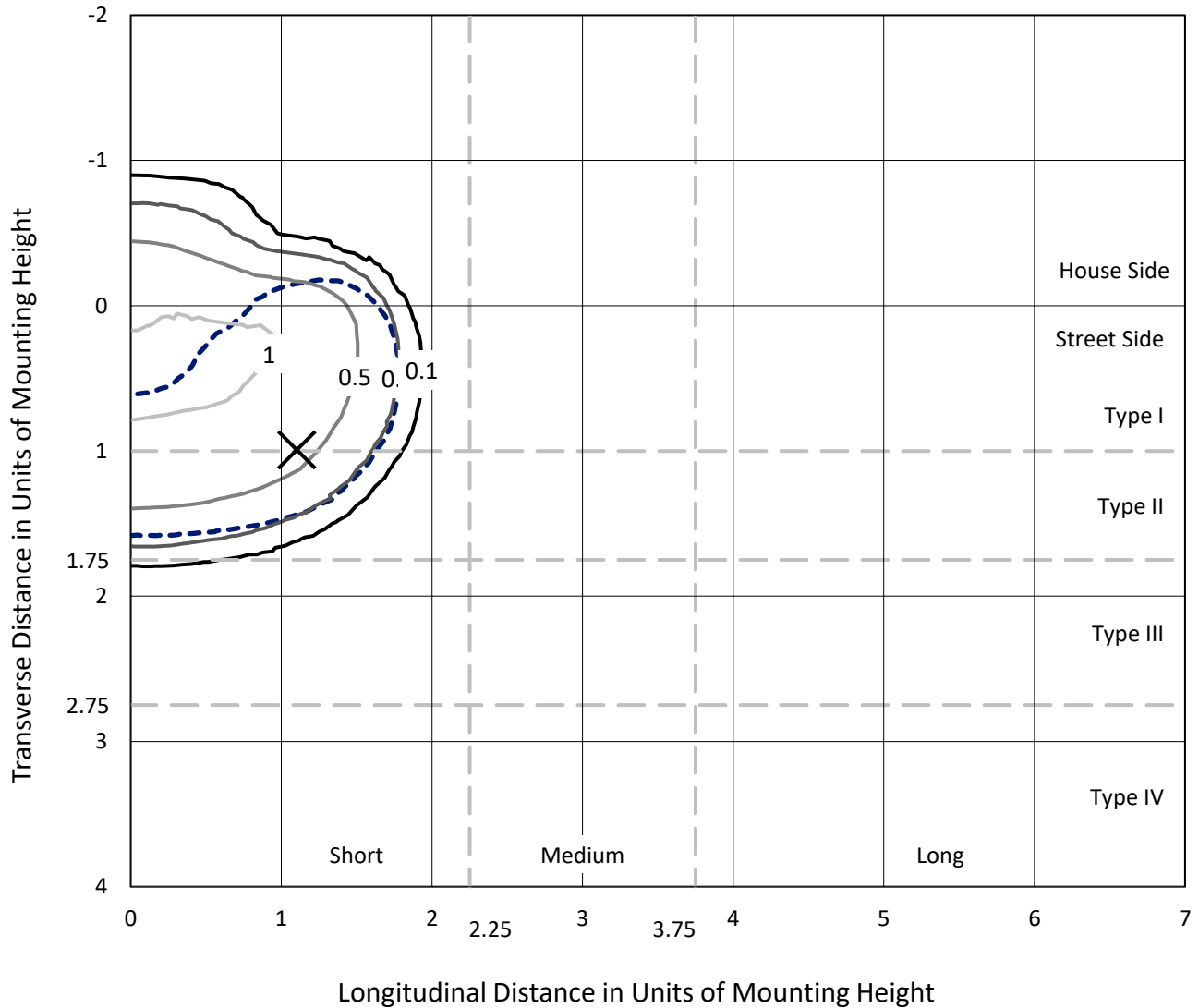
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

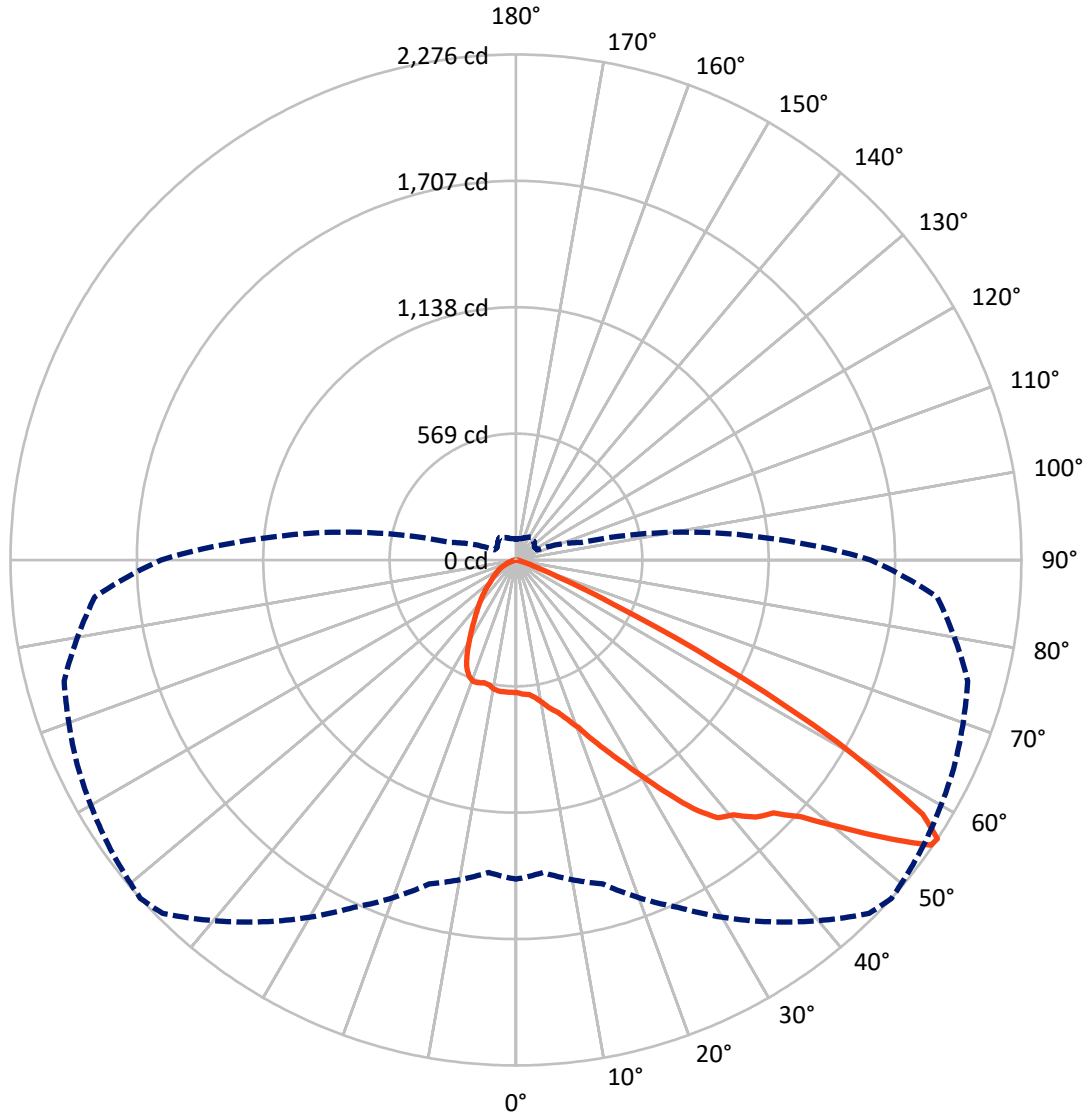
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 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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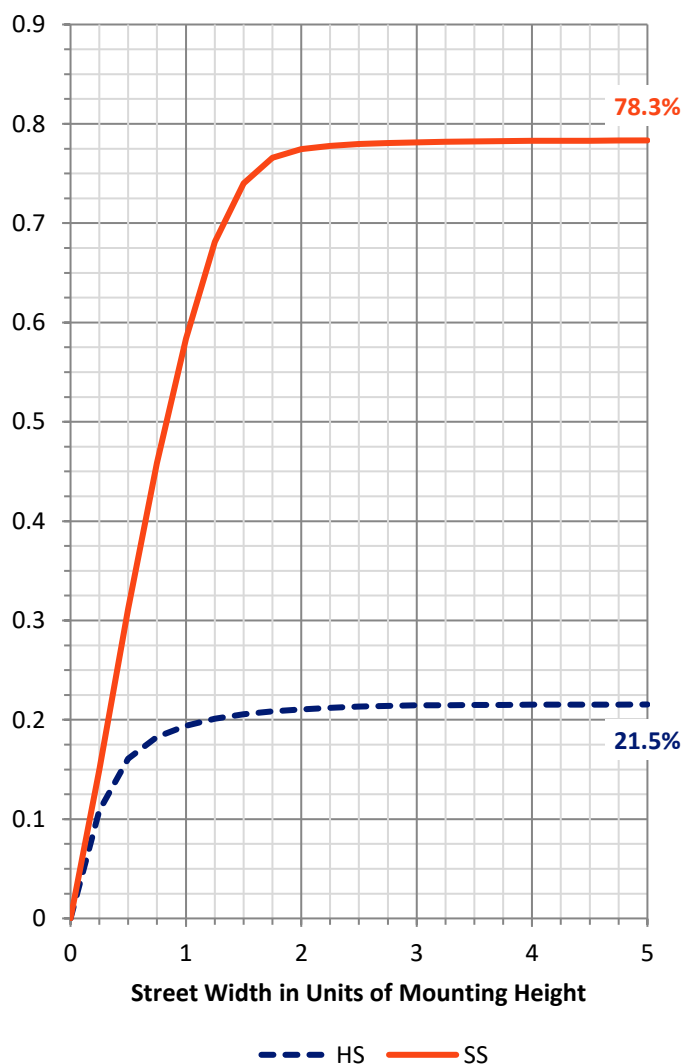
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	679.2	0.0	679.2
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	2443.8	0.0	2443.8
	% Fixture	78.3	0.0	78.3
Total	Lumens	3123.0	0.0	3123.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.1	1.9
10°-20°	185.7	5.9
20°-30°	336.8	10.8
30°-40°	529.1	16.9
40°-50°	771.8	24.7
50°-60°	929.9	29.8
60°-70°	272.3	8.7
70°-80°	34.5	1.1
80°-90°	4.8	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°	3123.0	100.0
0°-180°	3123.0	100.0

Coefficient of Utilization

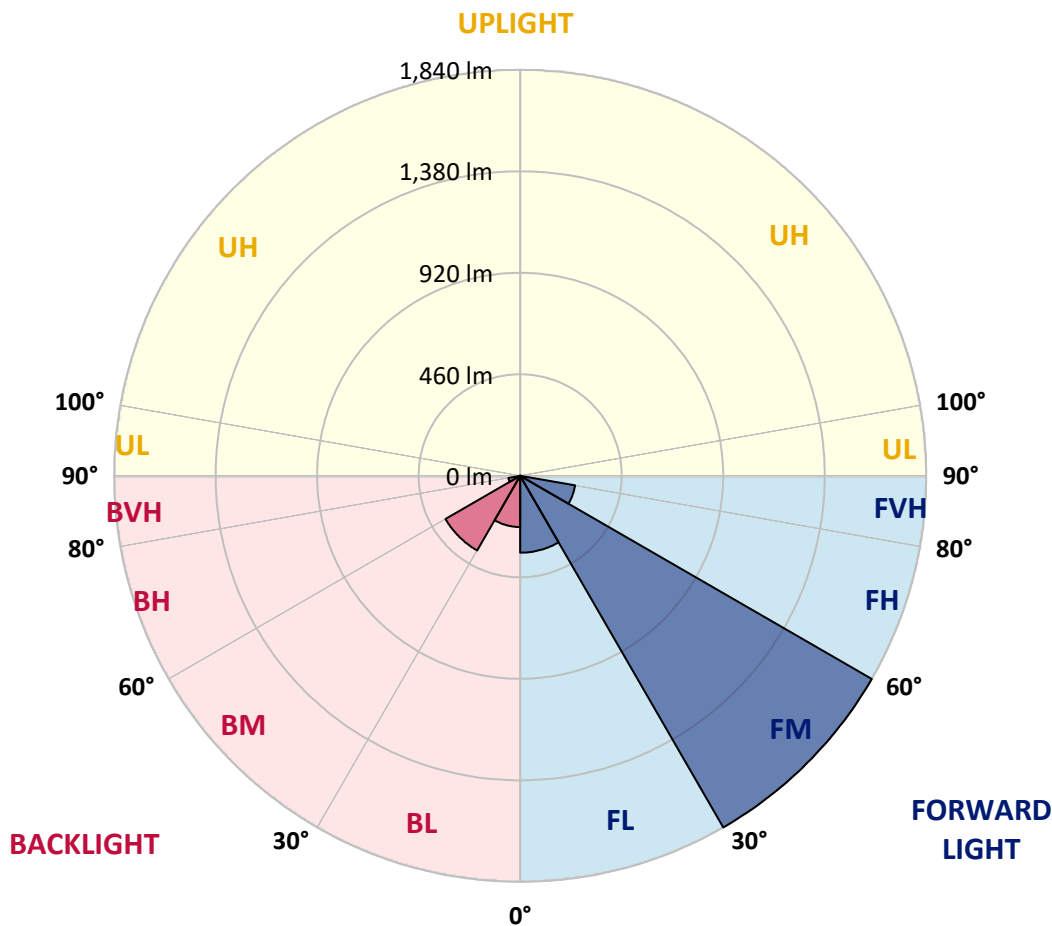


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	348.5	11.2			
FM (30°-60°)	1840.1	58.9			
FH (60°-80°)	252.8	8.1			G0/660
FVH (80°-90°)	2.4	0.1			G0/10
BL (0°-30°)	232.1	7.4	B1/500		
BM (30°-60°)	390.7	12.5	B1/1000		
BH (60°-80°)	54.0	1.7	B0/110		G0/110
BVH (80°-90°)	2.4	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°	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5
2.5°	607.3	604.5	604.5	599.9	605.0	602.7	604.5	598.8	604.5	595.9	602.7
5°	610.1	610.7	608.4	611.3	611.3	614.7	609.0	614.1	617.0	610.7	607.9
7.5°	624.9	626.1	625.5	623.2	627.8	627.2	626.6	622.7	623.8	621.5	618.1
10°	653.9	653.4	656.2	650.5	647.1	651.1	652.2	646.0	641.4	639.7	628.9
12.5°	696.0	689.2	685.2	679.5	681.2	675.5	685.8	675.0	672.7	662.5	651.7
15°	730.1	729.0	729.6	720.5	710.2	712.5	712.5	706.8	703.4	690.9	675.5
17.5°	800.1	776.2	781.3	769.9	761.4	760.8	755.7	756.8	747.8	721.6	698.3
20°	854.7	844.4	836.5	817.1	804.0	808.0	805.8	800.1	797.2	763.1	730.1
22.5°	903.6	907.0	893.9	888.8	870.6	872.3	876.8	871.7	850.1	814.8	765.9
25°	972.4	968.4	950.8	944.5	927.4	933.7	951.3	947.3	933.7	870.0	793.8
27.5°	1053.7	1040.0	1043.4	1015.0	998.5	1016.1	1037.2	1057.1	1018.4	934.8	826.8
30°	1111.1	1096.9	1095.8	1094.6	1090.6	1111.1	1135.6	1153.8	1122.5	999.7	881.4
32.5°	1139.5	1142.9	1152.6	1149.2	1183.9	1226.0	1251.6	1277.7	1238.5	1105.4	953.6
35°	1215.2	1193.6	1215.2	1217.4	1253.3	1342.5	1375.0	1437.5	1427.8	1255.0	1041.7
37.5°	1259.5	1257.8	1260.7	1282.3	1317.0	1427.3	1473.3	1521.7	1503.5	1344.8	1151.5
40°	1332.9	1337.4	1336.9	1353.3	1391.4	1491.0	1509.7	1549.0	1550.7	1469.3	1313.0
42.5°	1450.6	1432.4	1420.4	1437.5	1491.0	1546.1	1583.6	1575.7	1632.0	1620.6	1520.5
45°	1556.3	1567.1	1549.5	1578.0	1597.3	1626.9	1625.7	1642.8	1714.4	1768.4	1676.9
47.5°	1655.3	1662.1	1670.6	1690.0	1732.1	1736.6	1726.9	1719.5	1818.5	1874.2	1798.0
50°	1714.4	1720.7	1760.5	1795.2	1873.6	1883.9	1889.6	1870.8	1937.9	1944.2	1912.3
52.5°	1698.5	1705.3	1761.1	1875.3	2000.4	2094.3	2077.2	2045.4	2041.4	2065.8	2018.1
55°	1557.5	1551.2	1628.0	1806.0	2040.2	2265.4	2267.7	2234.2	2169.9	2153.4	2002.2
56°	1437.5	1413.0	1510.9	1725.8	1989.1	2250.6	2276.2	2240.4	2180.1	2106.2	1903.8
57.5°	1177.6	1200.9	1298.2	1476.2	1812.2	2144.3	2159.1	2150.6	2105.1	1981.1	1675.2
60°	649.4	690.3	776.2	994.0	1290.2	1645.6	1657.6	1726.9	1735.5	1517.1	1152.6
62.5°	275.8	271.2	360.5	520.9	734.7	993.4	1015.6	1086.7	1099.7	874.6	578.3
65°	112.0	118.3	163.2	262.1	388.4	452.6	483.9	507.2	550.4	361.1	213.2
67.5°	73.9	73.4	96.1	149.6	209.3	201.9	201.9	213.2	197.3	147.3	92.1
70°	52.9	54.6	68.8	103.5	130.2	96.7	92.7	88.7	100.6	97.2	74.5
72.5°	34.7	37.0	46.1	62.0	67.7	52.9	52.9	63.7	83.0	78.5	60.8
75°	22.7	23.3	28.4	35.8	33.5	27.3	30.1	42.6	60.3	58.0	43.2
77.5°	15.4	15.9	19.3	23.3	18.8	15.4	16.5	21.6	29.6	29.6	22.7
80°	5.7	6.3	8.0	7.4	8.5	10.8	11.9	14.8	17.6	17.6	15.4
82.5°	0.0	0.6	1.7	4.0	6.3	8.5	9.7	11.4	13.1	14.8	14.2
85°	0.0	0.6	1.7	2.8	4.5	5.1	5.7	4.0	3.4	3.4	2.8
87.5°	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6	1.1	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°	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5
2.5°	596.5	595.9	595.9	594.2	597.6	595.9	597.1	596.5	589.1	594.8	590.8
5°	602.7	606.7	600.5	599.3	594.8	596.5	596.5	590.8	595.9	595.4	594.2
7.5°	618.7	611.8	605.0	598.2	597.1	595.4	589.1	586.8	590.8	586.3	593.1
10°	625.5	626.6	616.4	607.3	598.8	586.8	578.3	573.2	566.9	573.7	577.7
12.5°	656.8	645.4	627.8	613.6	584.6	572.6	564.1	561.8	572.6	574.9	570.9
15°	667.6	665.9	643.1	611.3	581.1	566.9	568.6	564.1	565.2	559.5	560.7
17.5°	689.7	670.4	643.7	603.9	580.6	577.2	566.9	548.7	538.5	533.9	537.9
20°	714.2	695.4	656.8	606.7	585.7	576.6	543.0	520.9	499.8	488.5	489.0
22.5°	735.8	712.5	651.1	607.9	590.2	552.7	512.3	468.6	442.4	424.8	425.3
25°	762.0	729.0	653.4	610.1	578.3	514.6	456.6	414.0	382.7	370.7	374.7
27.5°	776.8	739.2	665.9	615.3	547.0	460.6	398.0	358.2	340.0	334.4	333.8
30°	821.1	762.0	681.2	605.0	494.7	402.6	344.6	320.1	302.5	297.4	298.5
32.5°	887.1	803.5	701.1	578.3	441.3	350.8	309.9	291.7	275.2	265.6	264.4
35°	942.2	874.6	722.2	536.8	379.3	311.0	285.5	262.7	237.7	226.9	224.0
37.5°	1047.4	954.7	717.6	474.2	320.1	281.5	259.3	231.4	209.8	195.0	193.3
40°	1187.3	1048.6	695.4	398.0	276.4	255.3	231.4	204.7	178.0	165.5	164.3
42.5°	1357.3	1163.4	655.1	320.7	232.6	229.2	207.6	176.8	153.0	143.9	144.4
45°	1495.5	1261.8	614.1	257.6	200.2	203.6	184.8	155.8	139.3	131.9	131.9
47.5°	1618.3	1328.3	569.8	212.7	170.0	178.0	161.5	144.4	130.2	124.5	123.4
50°	1736.6	1396.0	525.4	172.3	145.0	153.0	151.3	137.6	126.2	119.4	120.0
52.5°	1810.5	1406.8	469.1	141.0	126.8	135.9	141.6	129.1	116.6	112.6	111.5
55°	1720.1	1267.5	363.9	116.0	107.5	119.4	130.2	116.0	106.3	99.5	98.9
56°	1598.4	1133.3	304.2	106.9	101.8	114.9	126.2	110.9	100.1	96.1	93.3
57.5°	1353.3	927.4	224.6	95.0	94.4	106.9	120.0	105.8	93.3	89.8	89.8
60°	843.8	522.0	135.9	79.6	81.9	95.0	108.0	94.4	83.0	83.0	84.7
62.5°	384.4	217.2	82.5	67.7	70.5	81.9	96.1	85.3	79.0	85.3	86.4
65°	130.8	93.8	59.7	54.0	55.7	67.7	82.5	86.4	85.9	89.8	92.1
67.5°	73.4	60.3	50.0	44.9	43.8	50.0	67.7	86.4	83.0	81.3	82.5
70°	62.0	51.2	44.4	39.8	38.1	40.4	52.3	65.4	58.6	56.9	55.7
72.5°	50.0	42.6	38.7	35.8	30.7	26.2	23.9	25.0	27.9	29.6	32.4
75°	35.3	32.4	32.4	29.0	22.2	16.5	13.1	10.8	7.4	5.1	5.7
77.5°	19.9	19.9	20.5	17.6	14.2	10.8	8.0	5.7	2.8	1.1	0.6
80°	13.6	14.8	15.9	14.2	11.9	9.7	6.8	4.0	1.7	0.0	0.0
82.5°	13.6	15.4	16.5	14.2	11.9	9.1	6.8	4.0	1.7	0.6	0.0
85°	2.8	3.4	4.0	4.5	6.8	6.8	5.1	3.4	1.7	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)