

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: P451501

Luminaire Tested: **GALN-SA2B-827-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451501
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2B-827-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6884 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

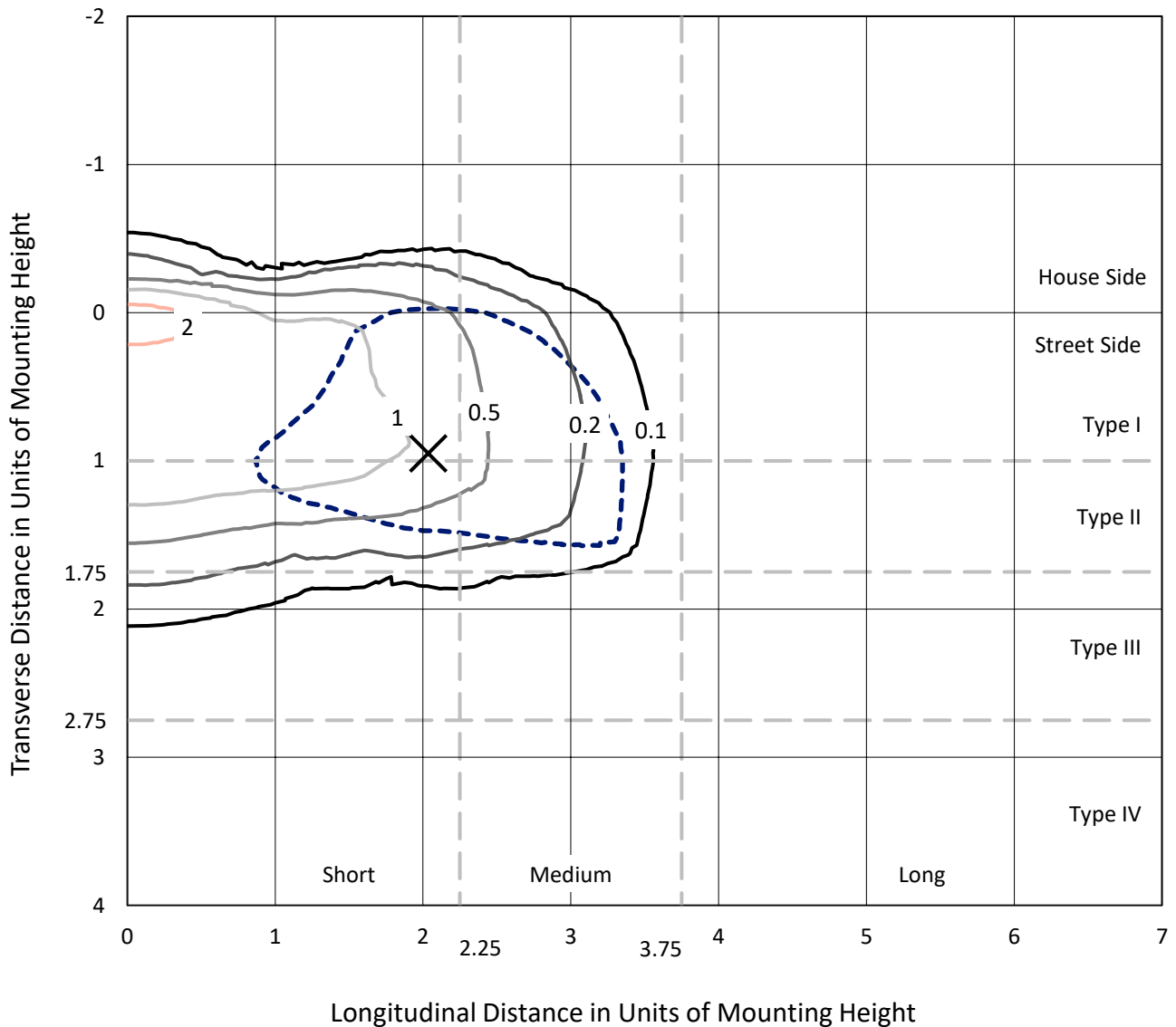
Input Watts (W): 82
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

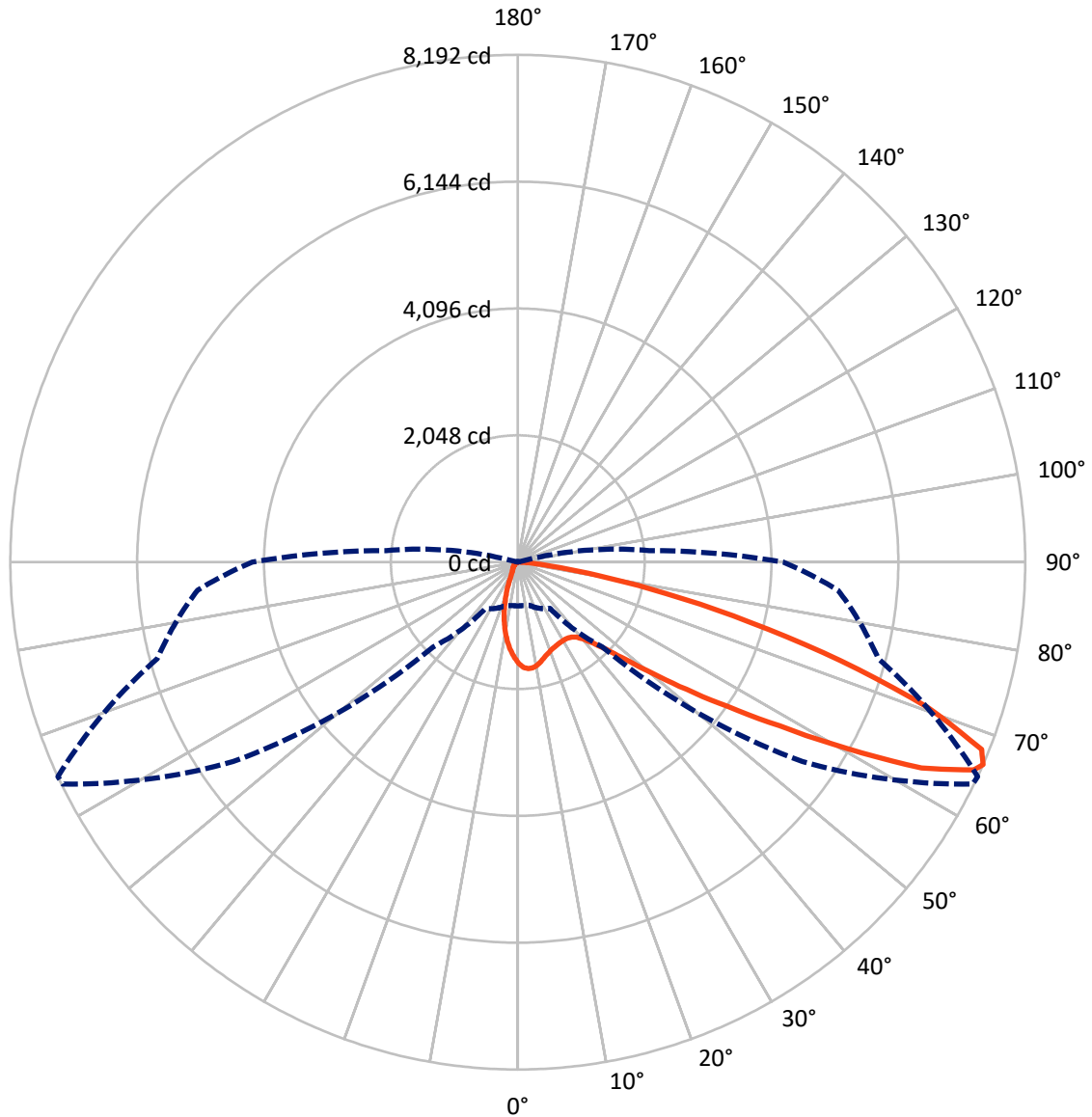
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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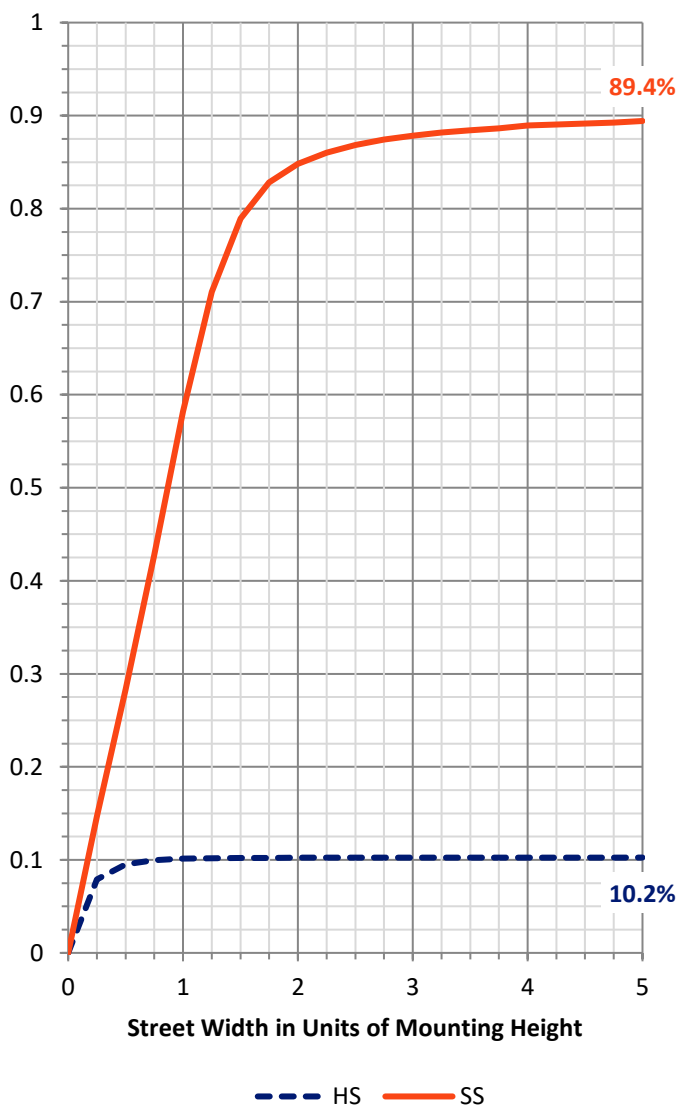
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	711.9	0.0	711.9
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	6172.1	0.0	6172.1
	% Fixture	89.7	0.0	89.7
Total	Lumens	6884.0	0.0	6884.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.5	1.9
10°-20°	290.9	4.2
20°-30°	416.7	6.1
30°-40°	608.6	8.8
40°-50°	1020.6	14.8
50°-60°	1703.2	24.7
60°-70°	1807.9	26.3
70°-80°	818.8	11.9
80°-90°	83.8	1.2
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°	6884.0	100.0
0°-180°	6884.0	100.0

Coefficient of Utilization



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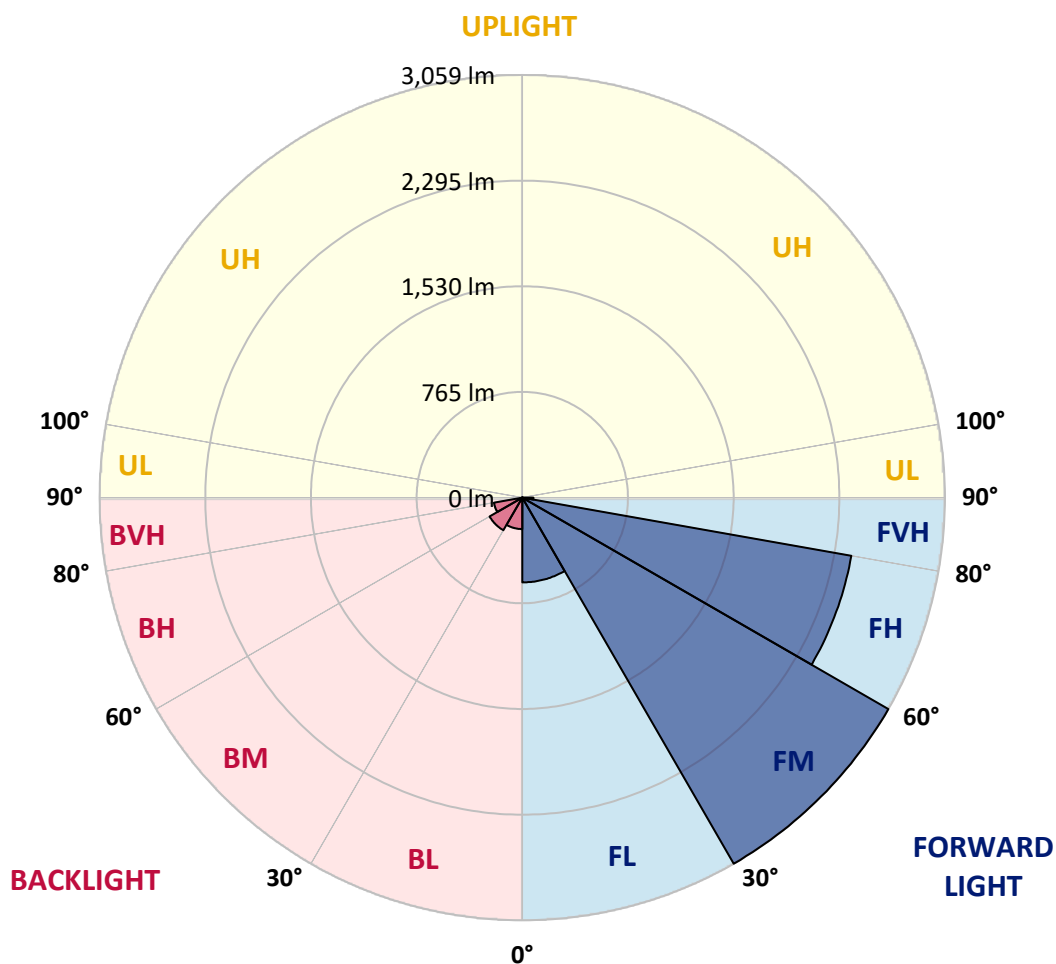
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	613.4	8.9			
FM (30°-60°)	3059.4	44.4			
FH (60°-80°)	2418.2	35.1			G2/5000
FVH (80°-90°)	81.1	1.2			G1/100
BL (0°-30°)	227.7	3.3	B1/500		
BM (30°-60°)	273.0	4.0	B1/1000		
BH (60°-80°)	208.5	3.0	B1/500		G1/500
BVH (80°-90°)	2.7	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1632.5	1632.5	1632.5	1632.5	1632.5	1632.5	1632.5	1632.5	1632.5	1632.5	1632.5
2.5°	1720.3	1722.2	1724.5	1727.8	1730.1	1723.1	1713.4	1702.2	1699.9	1676.2	1647.3
5°	1628.3	1631.1	1651.5	1662.7	1687.8	1710.6	1725.0	1726.8	1725.9	1703.6	1657.6
7.5°	1497.1	1505.1	1525.0	1544.6	1591.5	1634.8	1685.9	1721.7	1724.0	1718.0	1660.8
10°	1390.7	1395.8	1406.0	1444.6	1483.7	1549.7	1621.3	1688.7	1694.3	1718.5	1658.0
12.5°	1307.4	1314.9	1327.4	1357.2	1404.2	1466.5	1547.8	1638.5	1650.1	1709.6	1650.1
15°	1249.3	1253.0	1265.6	1294.9	1340.5	1398.1	1480.4	1586.0	1596.2	1698.0	1648.7
17.5°	1221.9	1226.1	1234.9	1258.2	1295.8	1349.3	1429.7	1543.6	1556.7	1690.6	1653.8
20°	1229.3	1233.1	1233.5	1245.6	1271.2	1316.3	1392.5	1504.1	1520.9	1685.9	1662.2
22.5°	1271.6	1272.1	1266.5	1261.0	1269.8	1302.3	1369.8	1479.0	1496.2	1685.0	1672.0
25°	1334.9	1336.3	1327.0	1307.4	1289.8	1306.5	1364.6	1462.7	1478.1	1682.7	1678.0
27.5°	1422.3	1421.8	1419.0	1386.5	1336.3	1325.1	1368.8	1453.9	1466.9	1676.2	1680.3
30°	1544.6	1540.9	1534.8	1498.1	1421.4	1370.2	1386.5	1448.3	1460.4	1666.9	1674.3
32.5°	1665.0	1678.9	1678.0	1643.1	1547.4	1450.7	1423.2	1455.8	1464.6	1660.8	1665.5
35°	1805.4	1804.9	1840.7	1827.7	1715.7	1553.4	1486.0	1480.4	1487.4	1665.0	1661.3
37.5°	1935.6	1947.7	2003.5	2017.0	1914.7	1698.5	1574.8	1533.4	1535.7	1693.4	1671.5
40°	2097.9	2121.1	2204.3	2249.4	2159.2	1913.7	1705.9	1630.6	1631.1	1763.1	1710.1
42.5°	2307.1	2343.8	2421.5	2496.8	2448.4	2168.5	1902.6	1784.5	1783.6	1885.8	1798.4
45°	2561.4	2587.0	2675.3	2794.8	2764.1	2524.2	2189.0	2023.0	2010.9	2087.2	1955.1
47.5°	2780.9	2815.8	2905.5	3041.7	3181.2	2958.5	2531.2	2350.8	2342.9	2407.5	2223.9
50°	2876.7	2907.4	3001.7	3192.8	3530.9	3528.5	3040.8	2829.2	2815.8	2850.6	2639.5
52.5°	2771.6	2800.4	2895.7	3133.8	3695.4	4223.2	3779.1	3429.5	3413.2	3368.6	3136.1
55°	2411.7	2435.4	2576.3	2849.7	3632.2	4686.3	4796.5	4171.1	4107.9	3934.4	3698.2
57.5°	1920.3	1908.2	1995.6	2313.1	3261.2	4841.6	5840.7	5095.0	4982.0	4423.6	4173.9
60°	1330.7	1367.9	1403.2	1612.5	2452.2	4572.3	6490.3	6256.4	6107.6	4904.8	4629.5
62.5°	978.3	1002.9	1026.2	1122.9	1541.8	3650.8	6605.1	7449.5	7317.4	5415.8	5064.3
65°	773.7	775.5	784.8	880.2	1015.9	2374.1	6053.2	8122.3	8088.3	5907.7	5240.5
66°	704.9	705.3	719.7	822.0	911.8	1933.3	5611.1	8173.4	8192.0	6025.8	5188.9
67.5°	616.1	614.2	635.1	738.8	830.4	1393.9	4819.7	7966.0	8076.2	6116.5	5003.4
70°	477.5	475.2	500.8	619.8	764.8	929.9	3203.5	6839.9	7017.5	5930.9	4426.8
72.5°	318.0	319.9	363.6	489.1	730.0	818.8	1927.2	5203.3	5454.4	4897.8	3482.5
75°	185.5	188.8	238.5	363.6	633.7	780.7	1090.8	3710.3	3870.7	3382.1	2169.5
77.5°	97.2	98.6	133.4	239.9	485.9	724.9	726.7	2370.3	2445.7	1643.6	858.8
80°	51.6	50.2	71.6	144.6	334.3	636.5	589.6	1254.9	1304.7	488.2	217.1
82.5°	19.5	21.4	38.1	94.9	197.6	457.0	507.7	554.7	537.5	107.4	91.1
85°	3.7	4.6	16.3	56.3	99.5	191.1	374.3	272.0	252.0	40.5	52.5
87.5°	0.5	0.9	4.6	13.5	14.4	64.6	110.7	75.3	65.1	14.9	21.9
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°	1632.5	1632.5	1632.5	1632.5	1632.5	1632.5	1632.5	1632.5	1632.5	1632.5	1632.5
2.5°	1633.4	1620.8	1579.0	1537.6	1495.3	1457.2	1431.1	1388.8	1378.1	1362.8	1353.9
5°	1630.1	1600.8	1520.4	1432.5	1350.7	1262.3	1194.9	1129.8	1095.0	1077.3	1070.8
7.5°	1620.8	1574.3	1448.8	1311.2	1180.1	1048.0	933.2	845.7	789.5	750.9	724.9
10°	1602.2	1538.1	1365.6	1176.3	978.3	803.9	658.4	547.7	462.2	435.2	436.1
12.5°	1583.2	1497.6	1272.6	1026.6	781.1	561.2	406.8	319.4	278.5	265.0	262.2
15°	1565.5	1459.0	1181.4	881.6	581.7	363.6	262.2	231.5	220.4	218.1	217.6
17.5°	1556.2	1423.2	1084.3	715.6	405.9	246.9	210.2	201.8	198.5	196.2	195.3
20°	1548.3	1392.1	991.3	560.3	277.6	202.3	188.3	180.4	174.8	172.5	171.1
22.5°	1542.7	1360.0	895.0	433.8	212.5	179.5	166.9	156.7	148.8	146.0	144.1
25°	1534.3	1324.7	797.9	317.1	179.0	159.5	145.1	133.0	122.7	117.6	116.7
27.5°	1522.3	1284.7	691.4	234.8	159.9	141.8	124.1	109.3	99.0	93.5	93.9
30°	1502.7	1242.8	584.9	186.4	144.6	123.7	104.6	90.2	80.4	76.3	75.8
32.5°	1479.5	1192.1	487.3	159.9	130.7	107.4	87.4	74.9	67.4	64.2	63.7
35°	1457.6	1141.0	387.8	143.7	116.2	92.5	73.5	62.8	57.2	54.4	54.9
37.5°	1445.5	1095.4	302.2	130.7	104.6	79.5	63.2	53.9	48.8	46.5	46.0
40°	1453.4	1058.2	240.4	119.0	91.6	68.3	54.4	46.5	41.4	38.1	38.1
42.5°	1490.6	1042.0	193.9	107.9	79.5	59.0	47.4	40.0	34.4	31.2	31.6
45°	1604.1	1059.2	162.3	97.6	68.3	51.1	40.9	33.0	27.9	25.6	25.1
47.5°	1792.4	1123.8	140.4	86.9	58.6	43.7	34.4	27.4	22.3	20.5	20.0
50°	2121.6	1257.2	124.1	76.3	49.7	37.2	28.4	21.9	17.7	15.8	15.8
52.5°	2574.4	1548.3	112.5	64.2	41.8	31.6	23.2	17.7	13.9	12.6	12.1
55°	3047.8	1855.2	106.5	53.9	34.9	26.0	18.6	13.9	10.7	9.3	8.8
57.5°	3503.0	2096.0	99.5	43.7	27.9	20.0	14.4	10.7	7.4	6.5	6.0
60°	3939.5	2290.8	84.6	34.9	21.9	14.4	10.7	7.4	5.1	4.2	4.2
62.5°	4330.1	2404.3	66.5	27.9	16.7	10.2	7.0	5.6	3.7	2.8	2.8
65°	4375.7	2256.9	50.2	21.4	12.1	6.5	4.2	4.2	2.8	1.9	1.9
66°	4284.1	2131.8	44.2	19.5	10.7	5.6	3.7	3.3	2.3	1.4	1.4
67.5°	4079.5	1918.4	38.1	16.7	8.8	4.2	2.8	2.8	1.9	0.9	0.9
70°	3524.8	1566.9	30.2	12.6	6.5	3.3	1.9	1.9	1.4	0.9	0.9
72.5°	2686.5	1169.8	24.6	9.3	4.6	2.3	1.4	1.4	1.4	0.9	0.9
75°	1620.4	630.0	19.1	7.0	4.2	1.9	0.9	1.4	1.9	1.4	0.9
77.5°	597.0	214.3	14.9	5.6	3.3	1.9	0.9	0.9	1.9	1.4	1.4
80°	146.5	55.8	10.7	4.6	3.3	1.9	0.9	0.9	1.9	1.9	1.9
82.5°	67.9	23.7	7.4	4.2	3.3	1.9	0.9	0.9	1.4	1.9	1.9
85°	39.1	11.2	6.0	4.6	3.3	1.9	0.9	0.9	1.4	1.9	1.9
87.5°	15.8	5.6	5.6	4.6	3.7	2.3	0.9	0.9	0.9	1.4	1.4
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)