

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: P526933

Luminaire Tested: **GALN-SA1D-830-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526933
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1D-830-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3637 lumens
Efficiency: N/A
Efficacy: 56.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

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



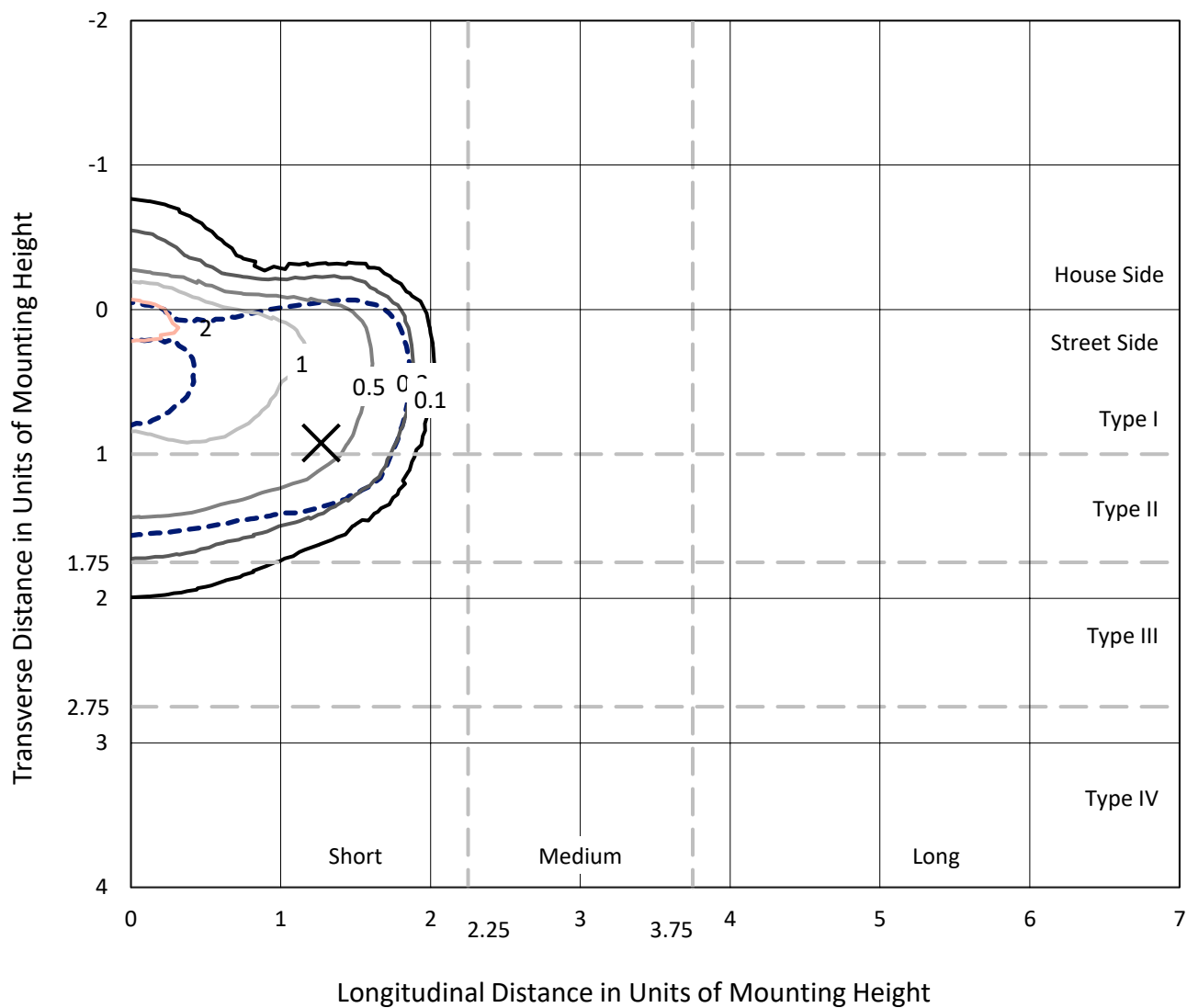
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



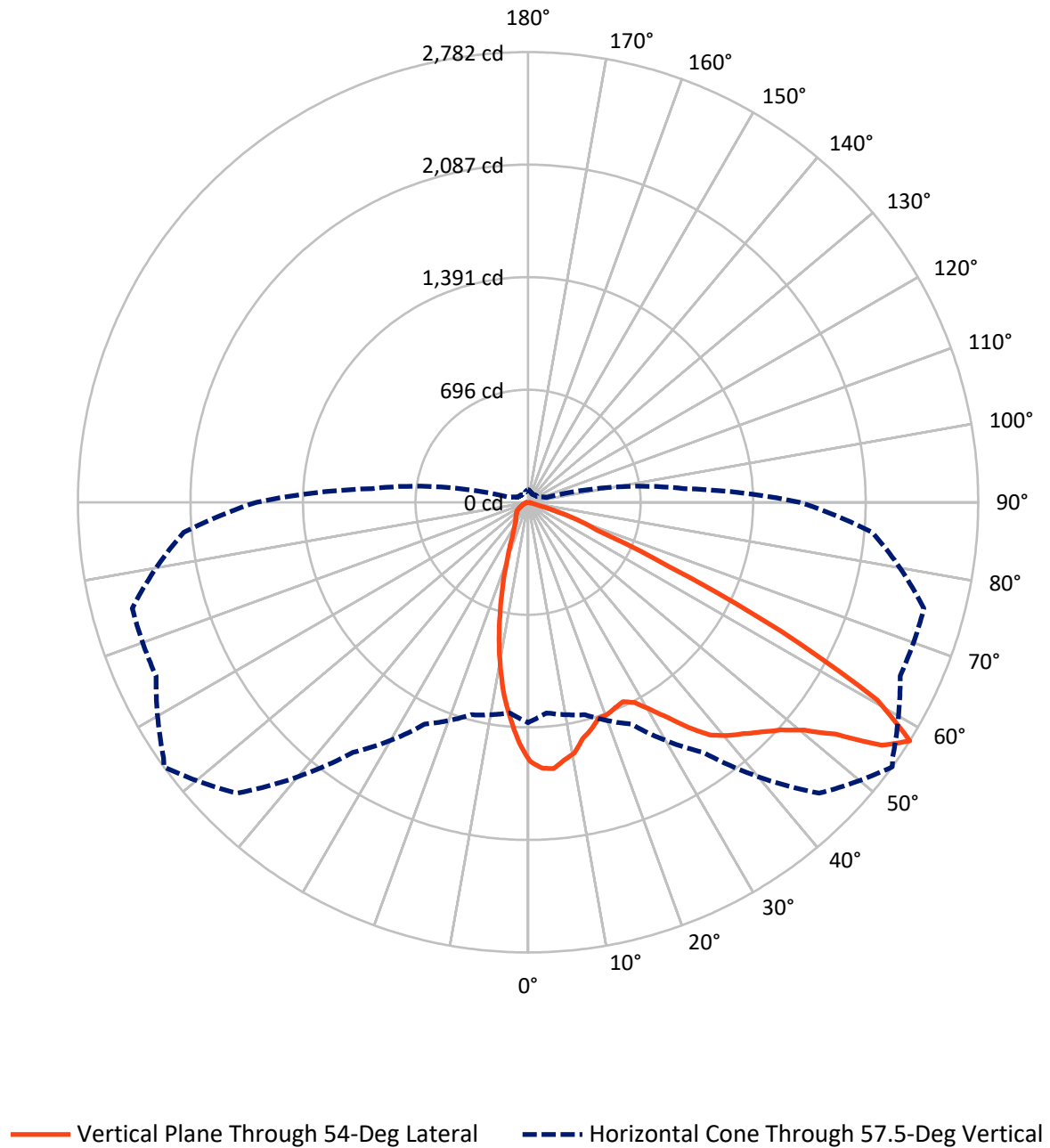
Based on 25 foot mounting height. Maximum calculated value = 2.6 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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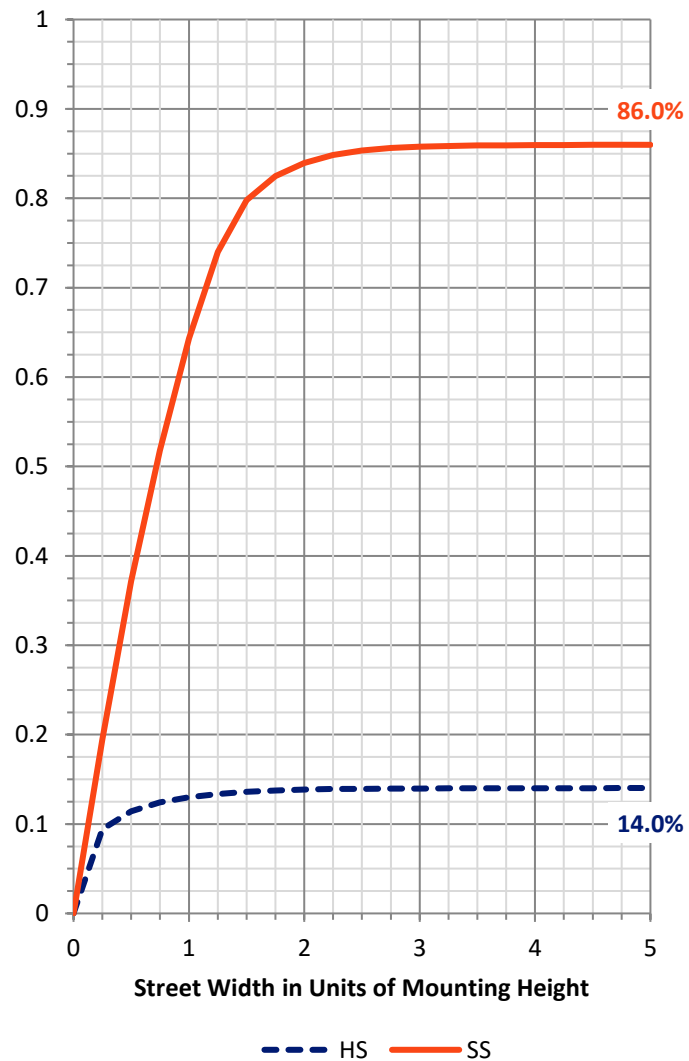
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	514.0	0.0	514.0
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	3123.0	0.0	3123.0
	% Fixture	85.9	0.0	85.9
Total	Lumens	3637.0	0.0	3637.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.1	3.7
10°-20°	286.2	7.9
20°-30°	379.3	10.4
30°-40°	551.3	15.2
40°-50°	817.4	22.5
50°-60°	1022.2	28.1
60°-70°	403.2	11.1
70°-80°	40.1	1.1
80°-90°	3.1	0.1
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°	3637.0	100.0
0°-180°	3637.0	100.0

Coefficient of Utilization



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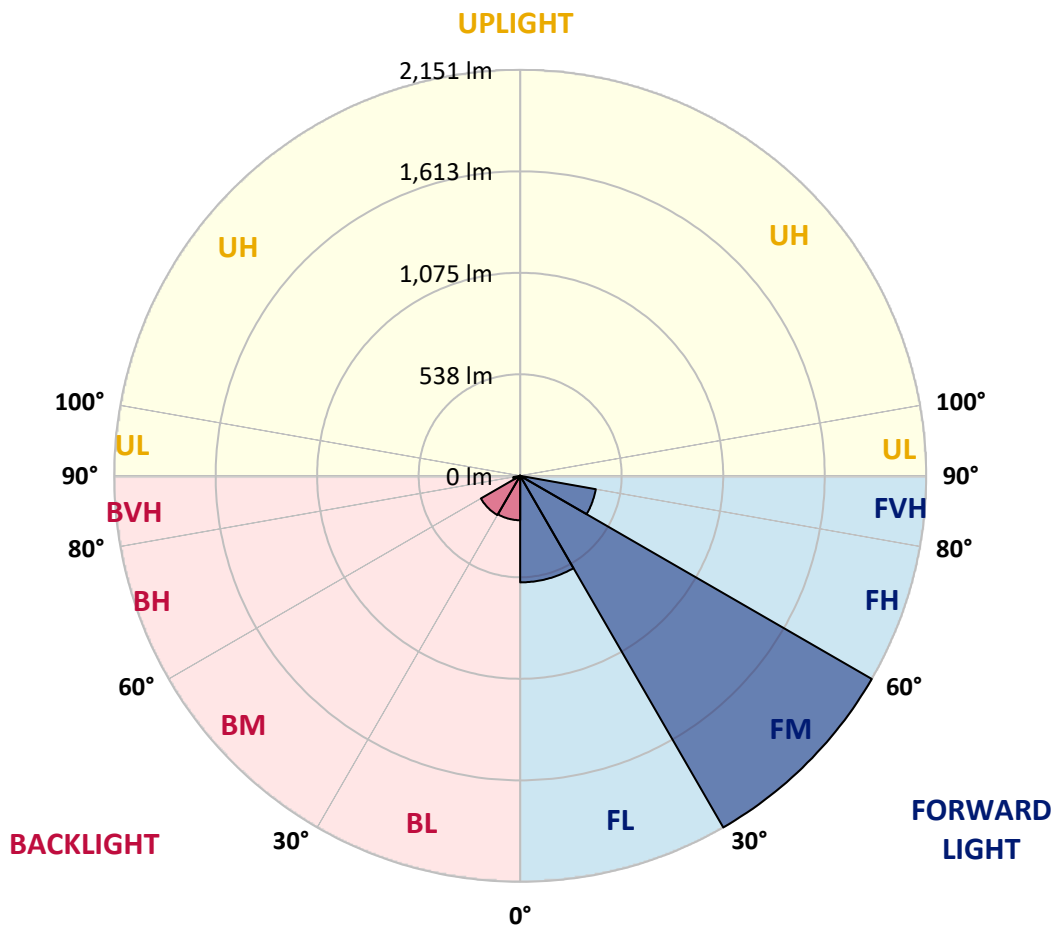
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	564.6	15.5			
FM	(30°-60°)	2150.5	59.1			
FH	(60°-80°)	406.5	11.2			G0/660
FVH	(80°-90°)	1.4	0.0			G0/10
BL	(0°-30°)	235.1	6.5	B1/500		
BM	(30°-60°)	240.3	6.6	B1/1000		
BH	(60°-80°)	36.8	1.0	B0/110		G0/110
BVH	(80°-90°)	1.7	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-G0

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1602.1	1602.1	1602.1	1602.1	1602.1	1602.1	1602.1	1602.1	1602.1	1602.1	1602.1
2.5°	1695.5	1677.9	1679.2	1673.2	1665.0	1671.1	1644.8	1650.8	1650.2	1614.3	1590.7
5°	1652.9	1671.8	1652.2	1668.4	1652.9	1669.8	1653.5	1641.4	1621.8	1595.4	1551.4
7.5°	1580.5	1562.2	1567.7	1587.9	1591.3	1629.2	1608.9	1624.5	1616.3	1564.3	1504.1
10°	1435.1	1431.0	1458.1	1485.1	1518.3	1558.9	1574.4	1565.6	1559.5	1539.9	1459.4
12.5°	1323.5	1335.0	1334.3	1379.0	1435.1	1458.1	1498.7	1497.3	1531.1	1494.6	1417.5
15°	1217.3	1223.4	1251.8	1279.6	1341.8	1407.4	1457.4	1464.2	1504.8	1479.1	1385.1
17.5°	1152.4	1143.6	1165.9	1199.1	1262.6	1348.5	1404.0	1420.2	1475.7	1470.3	1347.9
20°	1088.2	1088.2	1106.4	1145.6	1203.8	1300.5	1399.3	1394.5	1475.7	1460.1	1308.0
22.5°	1066.5	1077.3	1082.1	1111.8	1180.8	1264.0	1379.0	1387.8	1487.2	1455.4	1290.4
25°	1096.3	1082.1	1083.4	1107.1	1172.0	1246.4	1364.1	1383.7	1508.1	1479.1	1276.2
27.5°	1101.0	1115.2	1119.3	1135.5	1178.8	1251.8	1401.3	1441.2	1560.2	1534.5	1280.2
30°	1142.3	1156.5	1155.8	1183.5	1213.3	1295.8	1484.5	1492.6	1667.7	1604.2	1305.3
32.5°	1192.3	1207.2	1211.9	1244.4	1268.1	1376.3	1585.9	1606.9	1771.2	1713.7	1370.9
35°	1254.5	1249.1	1270.8	1303.2	1353.9	1493.9	1709.7	1744.8	1882.8	1855.8	1438.5
37.5°	1332.3	1325.5	1346.5	1399.3	1468.2	1633.3	1824.0	1847.0	1964.0	1987.6	1563.6
40°	1387.1	1389.8	1453.4	1524.4	1597.4	1765.8	1896.3	1918.7	2020.8	2110.7	1658.3
42.5°	1478.4	1495.3	1571.7	1658.3	1734.7	1865.2	1955.2	1976.8	2047.2	2209.5	1786.1
45°	1610.9	1603.5	1688.0	1784.7	1869.3	1968.7	2024.8	2017.4	2062.7	2307.5	1866.6
47.5°	1781.4	1782.7	1838.9	1921.4	2009.3	2058.6	2102.6	2076.2	2095.2	2411.0	1974.1
50°	1897.7	1907.8	1953.1	2037.7	2081.6	2157.4	2213.5	2197.3	2191.2	2473.2	2041.7
52.5°	1927.4	1957.9	1982.2	2087.7	2190.5	2310.2	2381.9	2416.4	2308.2	2494.2	2127.6
55°	1702.9	1730.0	1815.9	1960.6	2231.8	2552.3	2651.1	2651.8	2461.0	2587.5	2187.8
57.5°	1361.4	1306.6	1359.4	1512.9	1886.9	2542.2	2782.3	2750.5	2537.5	2532.7	2135.7
60°	941.4	927.9	931.3	992.1	1305.9	2022.1	2479.3	2520.6	2336.6	2195.3	1690.7
62.5°	746.0	734.5	719.6	712.8	810.9	1259.9	1748.9	1807.1	1633.9	1423.6	1002.3
65°	584.3	577.6	579.6	606.6	606.0	714.8	956.3	932.6	746.6	551.9	315.2
67.5°	394.3	404.4	412.5	494.4	536.3	497.8	461.9	448.4	242.8	102.1	69.7
70°	221.8	223.2	232.0	309.1	407.1	386.2	318.5	318.5	121.1	37.2	39.9
72.5°	121.1	117.0	108.9	133.2	181.2	184.0	142.0	123.8	35.8	24.3	22.3
75°	58.8	58.2	50.0	41.3	39.2	32.5	25.0	23.0	16.2	15.6	13.5
77.5°	12.2	11.5	6.1	6.1	6.8	7.4	9.5	9.5	11.5	11.5	9.5
80°	0.0	0.0	0.7	2.7	4.7	6.8	8.1	8.1	9.5	9.5	7.4
82.5°	0.0	0.0	0.7	2.0	4.1	6.1	7.4	8.1	9.5	10.1	8.1
85°	0.0	0.0	0.0	1.4	3.4	4.7	4.1	4.1	3.4	2.7	1.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1602.1	1602.1	1602.1	1602.1	1602.1	1602.1	1602.1	1602.1	1602.1	1602.1	1602.1
2.5°	1578.5	1577.1	1546.0	1528.4	1496.6	1468.9	1446.6	1430.4	1430.4	1420.2	1410.8
5°	1533.8	1522.3	1456.1	1413.5	1353.3	1308.6	1278.2	1254.5	1217.3	1227.5	1187.6
7.5°	1478.4	1449.3	1361.4	1296.5	1213.3	1149.7	1084.8	1027.3	971.8	946.8	960.3
10°	1418.9	1368.1	1249.8	1147.0	1043.5	927.2	851.5	759.5	702.7	699.3	684.4
12.5°	1356.0	1298.5	1154.4	1012.4	876.5	736.5	620.8	535.0	496.4	453.8	461.9
15°	1308.6	1223.4	1048.3	877.2	696.6	555.2	438.9	372.6	336.1	326.0	322.6
17.5°	1257.2	1165.9	940.1	733.1	546.4	399.7	315.8	284.0	269.8	269.8	267.8
20°	1203.8	1101.0	832.5	599.2	409.8	298.2	252.9	242.8	242.1	241.4	241.4
22.5°	1168.6	1026.6	735.1	476.1	309.1	238.7	219.8	215.7	218.4	226.6	226.6
25°	1131.4	954.9	627.6	367.2	239.4	204.9	194.1	196.8	203.6	211.0	208.3
27.5°	1093.6	908.3	526.2	288.1	196.1	179.2	175.2	181.2	188.7	195.4	193.4
30°	1084.8	858.2	430.1	218.4	168.4	156.2	158.9	164.3	171.8	174.5	177.2
32.5°	1098.3	819.0	352.4	179.2	146.8	143.4	143.4	146.1	150.8	156.9	154.9
35°	1136.9	796.7	278.6	155.5	134.6	131.2	130.5	133.2	135.9	138.0	135.9
37.5°	1195.7	779.1	227.9	138.0	126.5	121.1	119.7	119.0	121.7	122.4	123.8
40°	1270.8	788.6	193.4	127.1	118.4	112.3	108.2	108.2	108.2	110.2	110.9
42.5°	1351.9	801.4	167.0	121.1	110.9	103.5	99.4	98.1	99.4	102.1	101.4
45°	1437.1	826.4	150.1	111.6	104.1	94.7	89.3	87.9	91.3	96.7	96.0
47.5°	1516.9	862.3	137.3	105.5	97.4	88.6	81.8	80.5	86.6	94.0	94.7
50°	1596.7	924.5	132.6	100.8	92.7	82.5	76.4	75.1	81.8	91.3	93.3
52.5°	1688.7	991.5	129.2	94.7	87.2	77.8	71.0	69.7	77.1	89.3	89.9
55°	1748.9	1048.3	126.5	83.9	77.1	70.3	64.9	64.2	72.4	83.2	85.9
57.5°	1678.6	969.1	117.0	73.0	65.6	62.2	57.5	57.5	64.2	74.4	76.4
60°	1272.8	637.7	83.2	58.8	55.5	53.4	51.4	51.4	56.8	64.2	64.9
62.5°	745.3	343.6	53.4	47.3	47.3	45.3	41.9	41.9	47.3	51.4	52.1
65°	221.1	110.2	43.3	40.6	39.9	36.5	33.1	32.5	36.5	38.5	37.9
67.5°	63.6	50.7	35.8	33.8	33.1	27.7	25.7	25.0	25.7	24.3	23.7
70°	37.9	34.5	27.7	28.4	25.0	20.3	18.3	17.6	16.2	14.2	12.8
72.5°	21.0	21.0	20.3	21.6	17.6	13.5	11.5	9.5	7.4	6.1	5.4
75°	12.8	13.5	14.2	14.9	11.5	8.8	7.4	4.7	2.7	1.4	1.4
77.5°	8.8	9.5	10.1	10.8	9.5	8.1	6.1	3.4	0.7	0.0	0.0
80°	6.8	7.4	8.8	9.5	10.1	10.8	8.1	3.4	0.7	0.0	0.0
82.5°	7.4	8.1	10.1	9.5	9.5	9.5	7.4	3.4	0.7	0.0	0.0
85°	1.4	2.0	3.4	3.4	4.7	6.1	4.7	1.4	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)