

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: P527165

Luminaire Tested: **GALN-SA2A-830-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527165
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2A-830-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4266 lumens
Efficiency: N/A
Efficacy: 67.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

Input Watts (W): 63
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



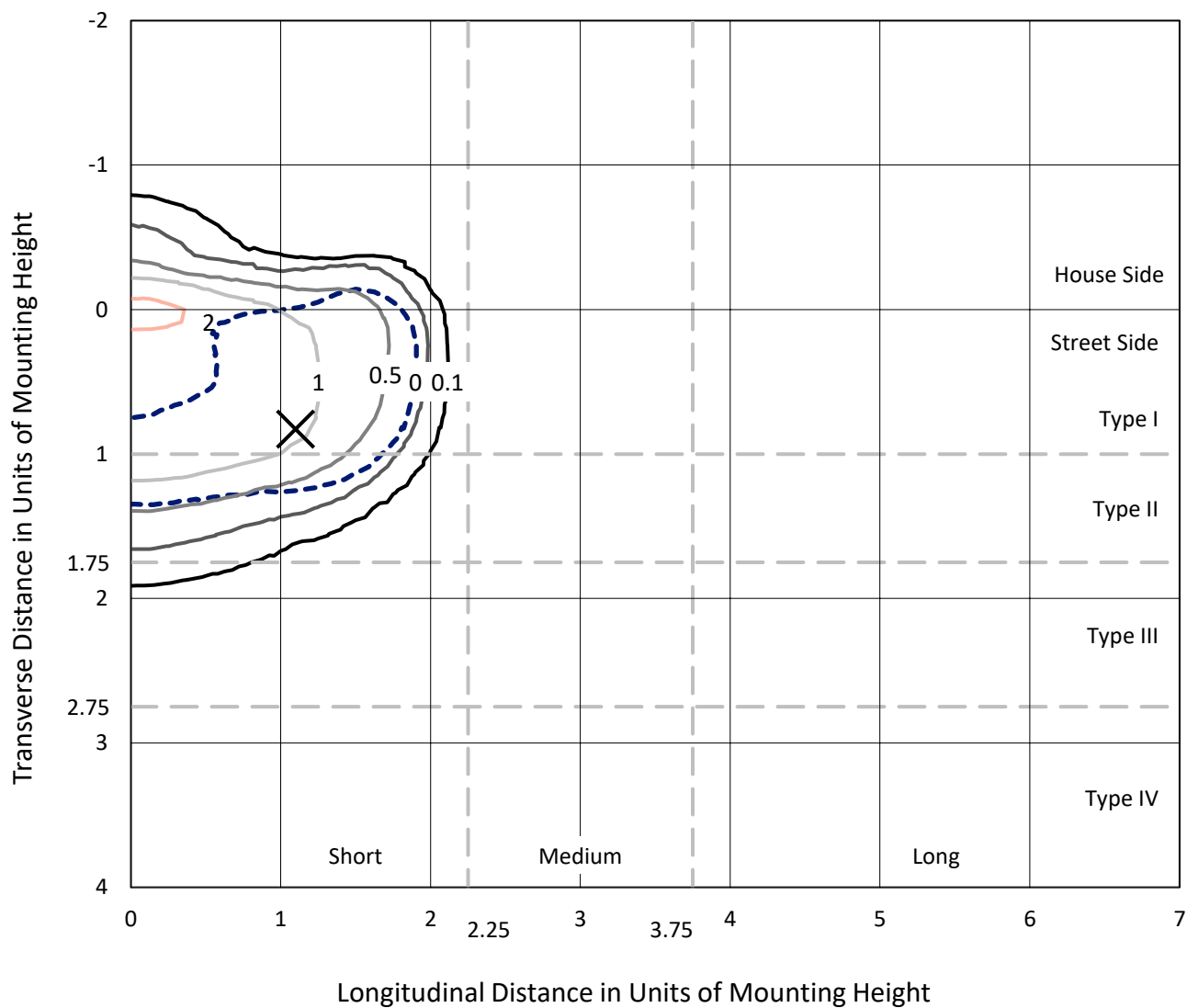
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

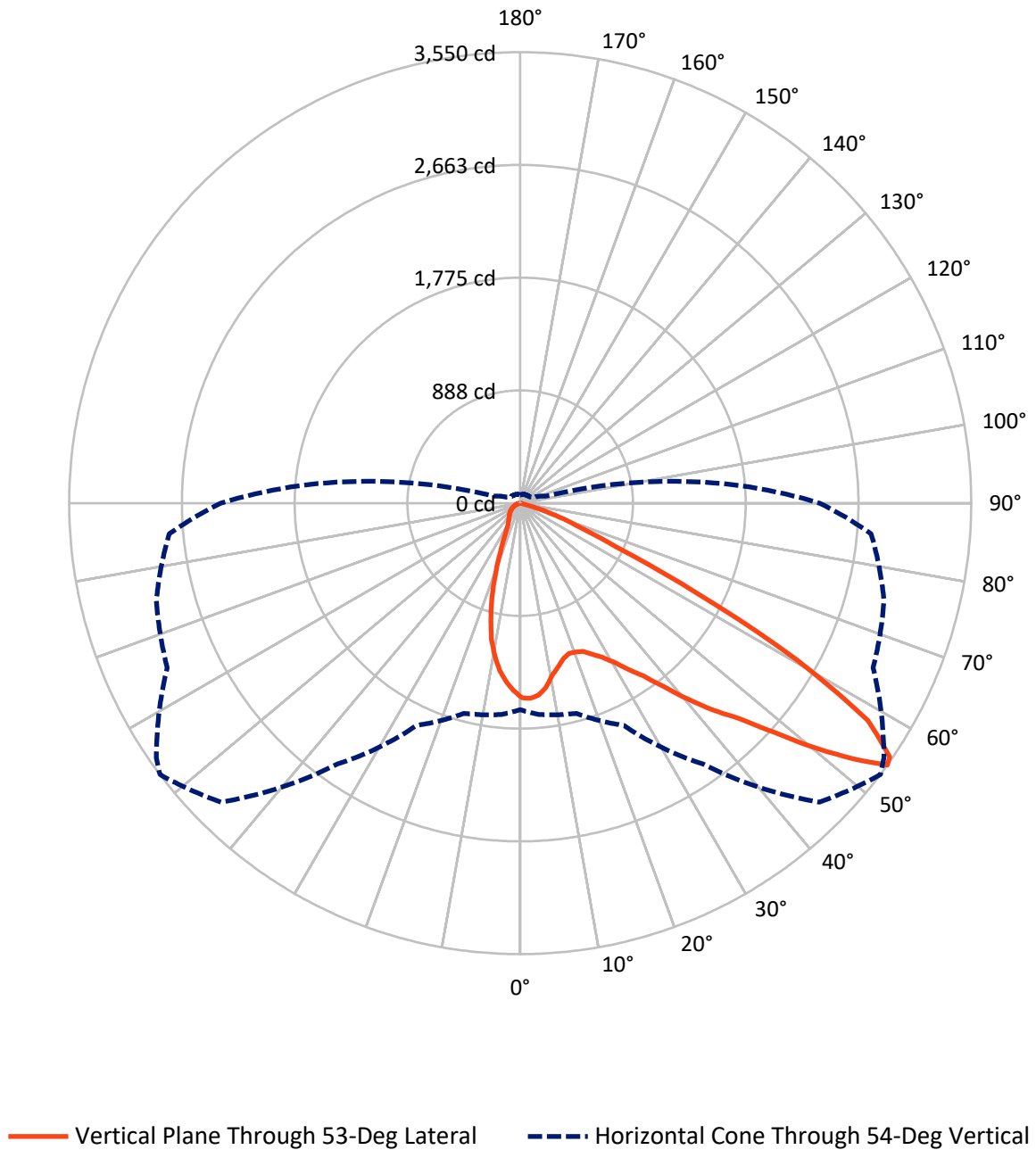


Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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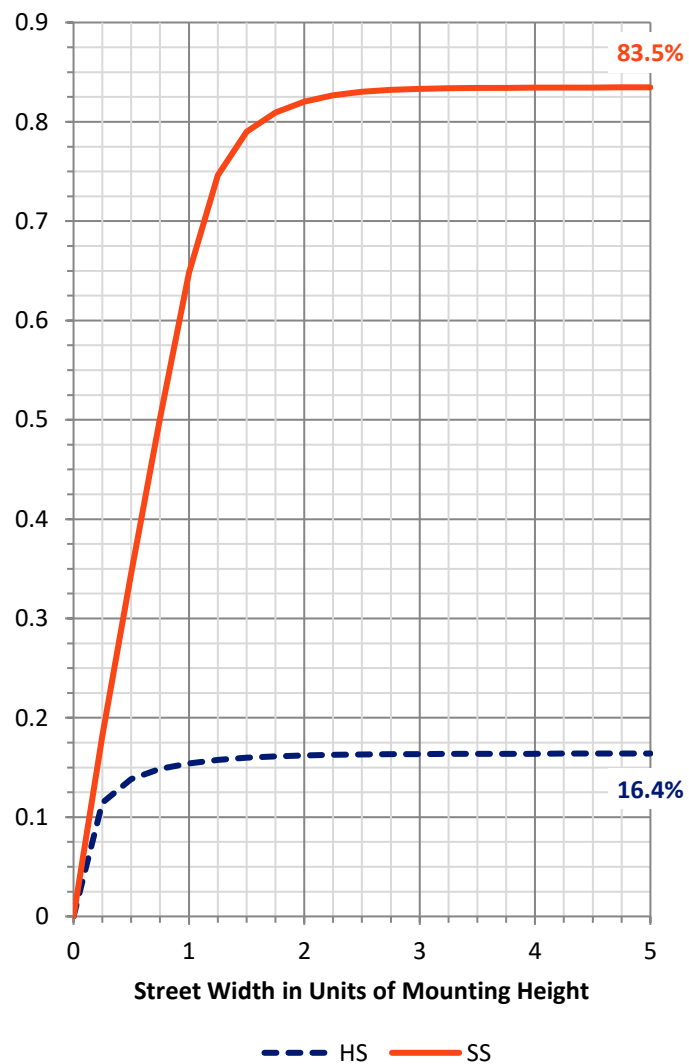
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	705.8	0.0	705.8
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	3560.2	0.0	3560.2
	% Fixture	83.5	0.0	83.5
Total	Lumens	4266.0	0.0	4266.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.5	3.1
10°-20°	301.4	7.1
20°-30°	428.4	10.0
30°-40°	661.1	15.5
40°-50°	1036.5	24.3
50°-60°	1204.1	28.2
60°-70°	455.0	10.7
70°-80°	43.3	1.0
80°-90°	4.9	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°	4266.0	100.0
0°-180°	4266.0	100.0

Coefficient of Utilization



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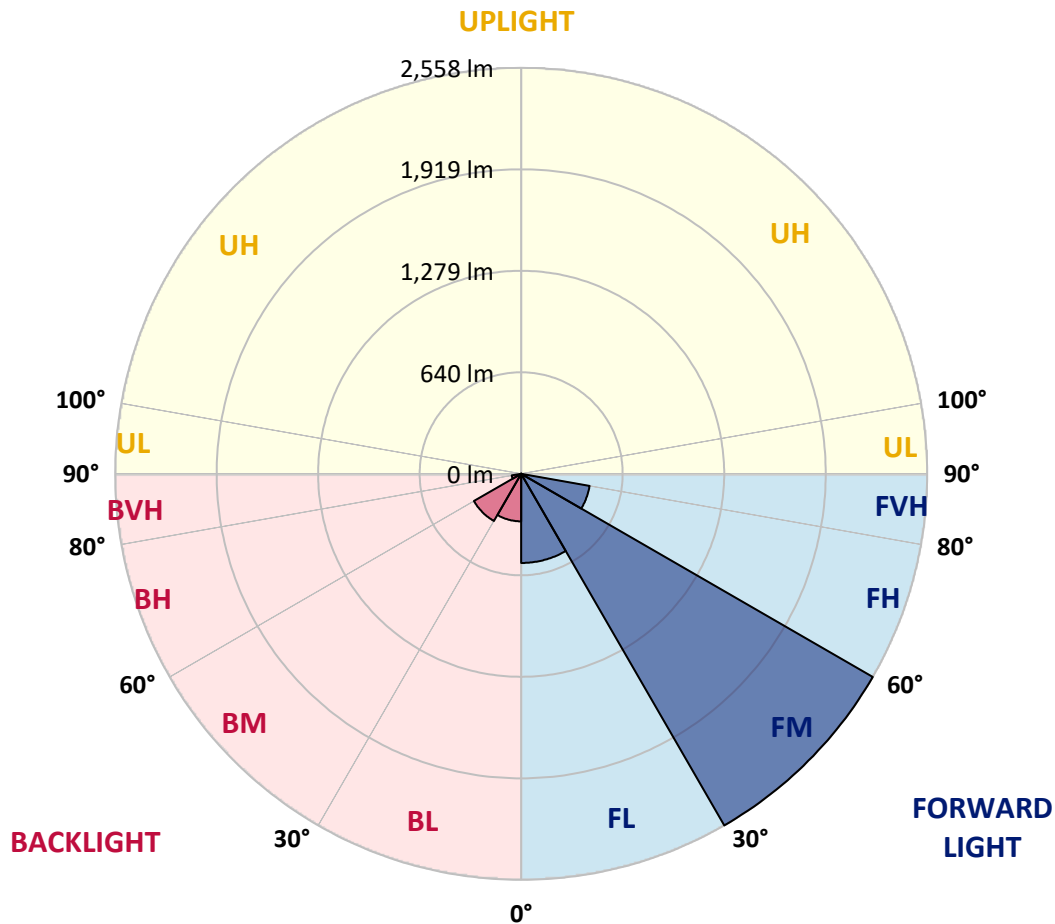
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	561.7	13.2			
FM	(30°-60°)	2558.2	60.0			
FH	(60°-80°)	437.8	10.3			G0/660
FVH	(80°-90°)	2.5	0.1			G0/10
BL	(0°-30°)	299.5	7.0	B1/500		
BM	(30°-60°)	343.5	8.1	B1/1000		
BH	(60°-80°)	60.5	1.4	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°	53°	55°	65°	75°	85°
0°	1532.3	1532.3	1532.3	1532.3	1532.3	1532.3	1532.3	1532.3	1532.3	1532.3	1532.3
2.5°	1524.3	1510.8	1524.3	1525.9	1535.5	1544.2	1538.6	1551.3	1544.2	1536.2	1533.9
5°	1401.1	1419.4	1420.2	1448.8	1442.5	1494.9	1518.0	1511.6	1550.6	1548.2	1542.6
7.5°	1290.7	1283.5	1293.1	1326.4	1368.6	1429.0	1462.3	1461.5	1517.2	1556.9	1552.9
10°	1188.1	1187.4	1207.2	1233.4	1269.2	1332.8	1378.9	1401.9	1488.6	1549.0	1557.7
12.5°	1119.0	1115.8	1137.3	1158.7	1215.2	1264.4	1323.3	1334.4	1433.7	1521.1	1535.5
15°	1073.7	1080.9	1082.4	1123.8	1159.5	1224.7	1270.8	1293.9	1408.3	1498.9	1553.7
17.5°	1065.8	1075.3	1076.1	1110.3	1148.4	1203.2	1243.8	1274.8	1386.8	1510.0	1554.5
20°	1081.7	1076.1	1080.9	1102.3	1139.7	1192.1	1250.9	1261.3	1379.7	1515.6	1563.3
22.5°	1127.0	1125.4	1113.4	1130.9	1157.2	1212.0	1267.6	1283.5	1400.3	1544.2	1570.4
25°	1177.0	1185.8	1174.6	1172.3	1190.5	1244.6	1318.5	1339.2	1469.5	1595.9	1592.7
27.5°	1270.8	1262.1	1262.1	1250.9	1246.2	1272.4	1373.3	1407.5	1546.6	1662.6	1618.1
30°	1360.6	1370.1	1363.0	1367.0	1335.2	1332.8	1451.2	1493.3	1683.3	1764.3	1672.2
32.5°	1502.9	1490.2	1502.1	1491.7	1449.6	1406.7	1556.9	1600.6	1848.6	1881.2	1753.2
35°	1621.3	1615.7	1666.6	1665.0	1596.6	1554.5	1669.0	1734.1	1963.8	2021.0	1848.6
37.5°	1789.8	1779.4	1837.5	1865.3	1804.1	1741.3	1829.5	1905.0	2071.1	2133.1	1946.3
40°	1963.0	1989.3	2067.1	2113.2	2048.1	1964.6	2025.8	2048.9	2142.6	2206.2	2013.1
42.5°	2182.4	2220.5	2300.0	2339.7	2334.2	2243.6	2225.3	2224.5	2194.3	2185.6	2062.4
45°	2393.0	2378.7	2501.1	2587.7	2657.6	2631.4	2417.6	2393.8	2276.2	2216.6	2075.1
47.5°	2485.2	2480.4	2563.9	2718.0	2956.5	2989.0	2697.4	2605.2	2414.4	2346.9	2144.2
50°	2366.0	2390.6	2473.3	2644.1	3009.7	3258.5	3040.7	2916.7	2575.8	2505.8	2307.9
52.5°	1976.5	1993.2	2071.9	2288.9	2828.5	3417.4	3369.7	3298.2	2872.2	2756.2	2593.3
54°	1625.3	1669.8	1712.7	1930.4	2505.8	3329.2	3550.1	3495.3	3065.3	2964.4	2772.9
55°	1415.4	1441.7	1472.7	1689.6	2282.5	3179.8	3529.5	3534.2	3194.9	3029.6	2893.7
57.5°	1034.0	1052.2	1020.5	1116.6	1567.2	2582.1	3228.3	3357.0	3369.7	3127.3	2967.6
60°	790.0	797.9	762.2	777.3	974.4	1772.3	2497.1	2652.1	3039.9	2733.1	2513.8
62.5°	612.8	614.3	613.5	639.8	671.6	1042.7	1561.7	1699.2	2095.8	1940.8	1707.1
65°	451.4	444.3	457.0	536.5	573.0	655.7	822.6	922.7	1138.9	961.6	687.5
67.5°	292.5	294.9	307.6	399.0	491.2	503.1	506.3	498.3	499.1	275.0	172.5
70°	175.6	179.6	175.6	225.7	351.3	360.8	329.8	321.9	251.1	65.2	64.4
72.5°	104.1	98.5	88.2	97.0	146.2	174.8	157.4	156.6	98.5	38.1	38.1
75°	43.7	39.7	32.6	29.4	38.9	37.4	37.4	33.4	26.2	25.4	23.8
77.5°	8.7	8.7	6.4	7.2	9.5	11.1	13.5	13.5	15.9	15.9	15.1
80°	0.0	0.8	2.4	4.8	7.2	10.3	11.9	11.9	13.5	13.5	11.1
82.5°	0.0	0.8	2.4	4.8	6.4	9.5	11.9	11.9	13.5	14.3	11.9
85°	0.0	0.8	2.4	4.0	6.4	7.9	7.9	7.2	5.6	4.8	3.2
87.5°	0.0	0.0	0.8	1.6	0.8	1.6	1.6	1.6	1.6	1.6	1.6
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°	1532.3	1532.3	1532.3	1532.3	1532.3	1532.3	1532.3	1532.3	1532.3	1532.3	1532.3
2.5°	1539.4	1538.6	1519.6	1488.6	1481.4	1455.2	1452.0	1436.1	1444.9	1415.4	1412.3
5°	1526.7	1517.2	1494.1	1474.3	1416.2	1374.9	1342.3	1302.6	1279.5	1283.5	1268.4
7.5°	1545.0	1520.4	1479.8	1410.7	1339.9	1267.6	1228.7	1147.6	1118.2	1074.5	1068.1
10°	1525.9	1507.6	1444.9	1330.4	1232.7	1128.5	1037.1	947.3	879.0	849.6	843.2
12.5°	1524.3	1492.5	1387.6	1260.5	1119.0	969.6	836.9	724.8	657.3	619.1	610.4
15°	1499.7	1461.5	1323.3	1152.4	956.9	770.9	626.3	518.2	466.5	444.3	450.6
17.5°	1502.1	1444.9	1258.9	1037.9	797.1	565.9	427.6	371.9	358.4	364.0	364.0
20°	1499.7	1407.5	1181.0	906.0	610.4	392.6	313.9	294.1	302.8	320.3	316.3
22.5°	1487.0	1390.0	1109.5	766.9	449.0	290.9	251.9	252.7	266.2	287.7	292.5
25°	1496.5	1351.1	1018.9	626.3	327.4	232.1	218.6	224.1	238.4	254.3	257.5
27.5°	1489.4	1323.3	924.3	486.4	239.2	199.5	198.7	205.0	211.4	223.3	223.3
30°	1497.3	1297.8	831.3	361.6	197.1	182.8	179.6	184.4	190.7	193.1	192.3
32.5°	1526.7	1278.8	724.0	270.2	174.0	166.9	166.9	166.9	166.1	169.3	170.1
35°	1591.1	1281.9	629.4	209.0	158.9	153.4	151.0	147.8	146.2	147.8	148.6
37.5°	1661.0	1280.3	531.7	178.0	147.8	143.1	137.5	132.7	131.9	133.5	131.1
40°	1692.0	1295.4	441.1	159.7	137.5	131.9	123.2	119.2	120.0	121.6	120.0
42.5°	1734.1	1300.2	382.3	145.4	128.0	119.2	113.6	108.9	108.1	110.5	109.7
45°	1733.3	1273.2	320.3	137.5	119.2	109.7	102.5	98.5	98.5	100.1	100.9
47.5°	1784.2	1269.2	275.0	130.3	112.9	103.3	94.6	91.4	90.6	90.6	89.0
50°	1902.6	1324.8	240.0	122.4	104.9	96.2	89.0	85.0	81.9	80.3	79.5
52.5°	2133.9	1498.1	213.0	112.9	96.2	89.0	82.7	79.5	75.5	71.5	70.7
54°	2358.0	1676.9	211.4	104.9	89.0	84.2	78.7	77.1	72.3	66.8	65.2
55°	2459.0	1781.0	217.0	98.5	84.2	81.1	76.3	74.7	69.9	63.6	62.8
57.5°	2542.4	1821.6	213.8	81.9	76.3	75.5	71.5	69.1	63.6	54.8	53.2
60°	2046.5	1377.3	153.4	72.3	69.9	68.3	65.2	63.6	56.4	46.9	46.1
62.5°	1293.1	792.4	97.8	63.6	61.2	58.8	54.8	53.2	46.9	37.4	35.0
65°	550.8	328.2	66.0	56.4	52.5	48.5	45.3	42.9	37.4	27.8	27.0
67.5°	143.1	116.8	54.8	49.3	43.7	38.1	35.8	31.8	25.4	19.1	18.3
70°	64.4	58.8	46.1	41.3	35.0	29.4	26.2	22.3	16.7	12.7	11.9
72.5°	38.1	37.4	35.0	31.0	26.2	22.3	19.1	15.1	11.1	7.2	7.2
75°	23.8	23.0	23.8	21.5	18.3	16.7	14.3	10.3	6.4	3.2	3.2
77.5°	14.3	14.3	14.3	13.5	12.7	12.7	10.3	6.4	3.2	0.8	0.8
80°	11.1	11.1	11.9	11.1	11.1	11.1	8.7	4.8	1.6	0.0	0.0
82.5°	11.1	11.9	13.5	12.7	11.1	9.5	7.9	4.8	1.6	0.0	0.0
85°	3.2	2.4	4.0	5.6	7.9	7.2	5.6	4.0	1.6	0.0	0.0
87.5°	1.6	1.6	1.6	1.6	0.8	0.8	0.8	0.8	0.8	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)