

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: P526931

Luminaire Tested: **GALN-SA1D-830-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526931
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-SA1D-830-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS 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: 3631 lumens
Efficiency: N/A
Efficacy: 55.9 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



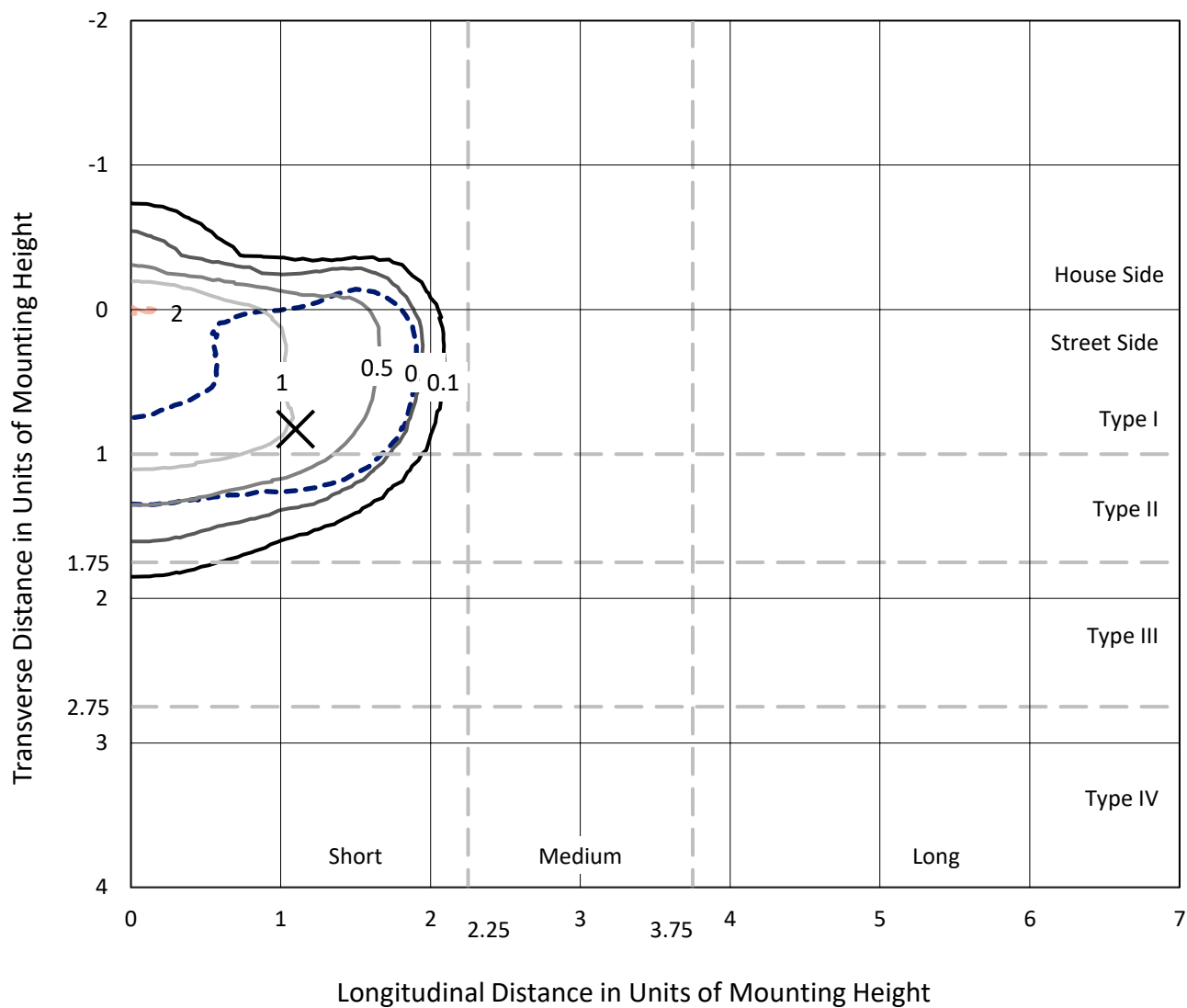
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

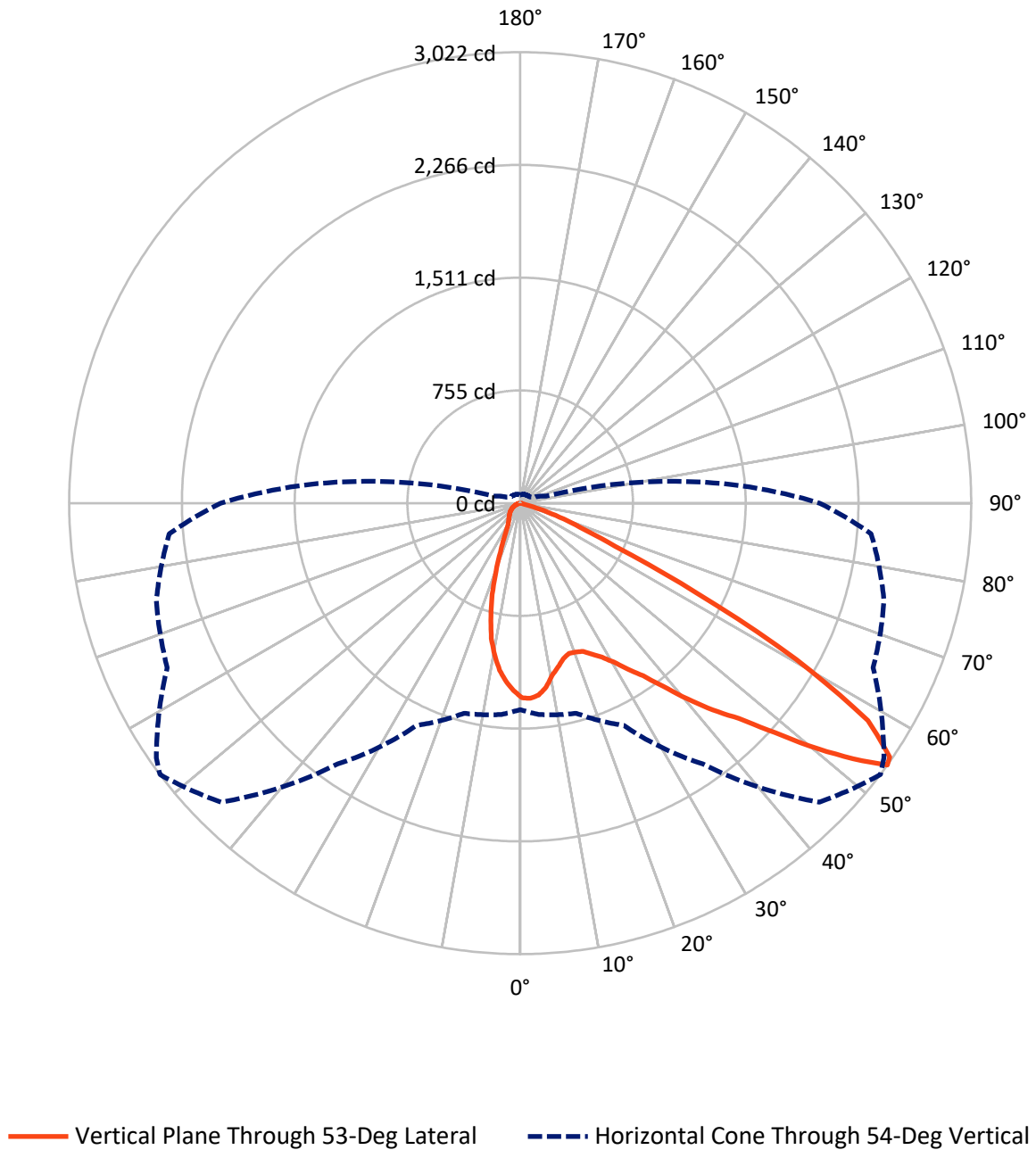


Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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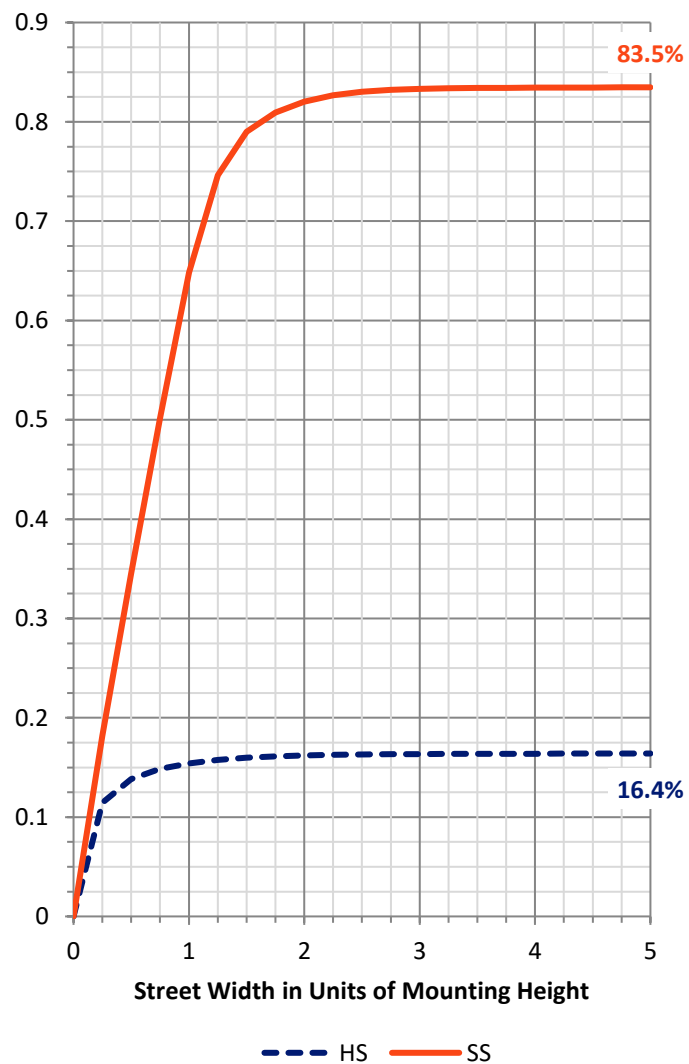
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	600.8	0.0	600.8
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	3030.2	0.0	3030.2
	% Fixture	83.5	0.0	83.5
Total	Lumens	3631.0	0.0	3631.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.9	3.1
10°-20°	256.5	7.1
20°-30°	364.6	10.0
30°-40°	562.7	15.5
40°-50°	882.2	24.3
50°-60°	1024.8	28.2
60°-70°	387.2	10.7
70°-80°	36.8	1.0
80°-90°	4.2	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°	3631.0	100.0
0°-180°	3631.0	100.0

Coefficient of Utilization



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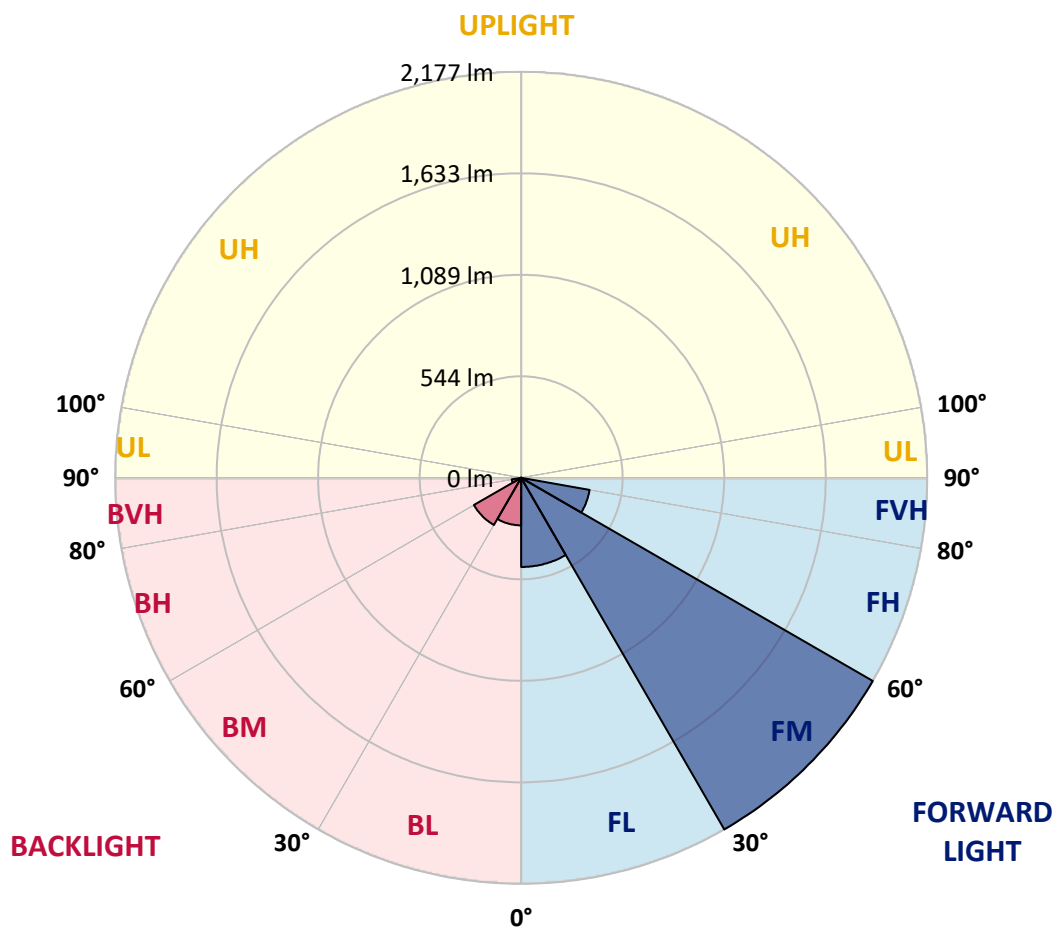
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	478.1	13.2			
FM	(30°-60°)	2177.4	60.0			
FH	(60°-80°)	372.6	10.3			G0/660
FVH	(80°-90°)	2.1	0.1			G0/10
BL	(0°-30°)	254.9	7.0	B1/500		
BM	(30°-60°)	292.4	8.1	B1/1000		
BH	(60°-80°)	51.5	1.4	B0/110		G0/110
BVH	(80°-90°)	2.0	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°	1304.2	1304.2	1304.2	1304.2	1304.2	1304.2	1304.2	1304.2	1304.2	1304.2	1304.2
2.5°	1297.4	1285.9	1297.4	1298.8	1306.9	1314.3	1309.6	1320.4	1314.3	1307.6	1305.5
5°	1192.6	1208.1	1208.8	1233.2	1227.8	1272.4	1292.0	1286.6	1319.8	1317.7	1313.0
7.5°	1098.6	1092.5	1100.6	1129.0	1164.8	1216.3	1244.7	1244.0	1291.3	1325.2	1321.8
10°	1011.3	1010.6	1027.5	1049.8	1080.3	1134.4	1173.6	1193.3	1267.0	1318.4	1325.8
12.5°	952.4	949.7	968.0	986.3	1034.3	1076.2	1126.3	1135.8	1220.3	1294.7	1306.9
15°	913.9	920.0	921.3	956.5	986.9	1042.4	1081.6	1101.3	1198.7	1275.8	1322.5
17.5°	907.1	915.2	915.9	945.0	977.5	1024.1	1058.6	1085.0	1180.4	1285.3	1323.1
20°	920.6	915.9	920.0	938.2	970.0	1014.7	1064.7	1073.5	1174.3	1290.0	1330.6
22.5°	959.2	957.9	947.7	962.6	984.9	1031.6	1078.9	1092.5	1191.9	1314.3	1336.7
25°	1001.8	1009.3	999.8	997.8	1013.3	1059.3	1122.2	1139.8	1250.8	1358.3	1355.6
27.5°	1081.6	1074.2	1074.2	1064.7	1060.7	1083.0	1168.9	1198.0	1316.4	1415.1	1377.3
30°	1158.1	1166.2	1160.1	1163.5	1136.4	1134.4	1235.2	1271.0	1432.7	1501.7	1423.2
32.5°	1279.2	1268.3	1278.5	1269.7	1233.8	1197.3	1325.2	1362.4	1573.4	1601.2	1492.2
35°	1380.0	1375.2	1418.5	1417.2	1359.0	1323.1	1420.5	1476.0	1671.5	1720.2	1573.4
37.5°	1523.4	1514.6	1564.0	1587.6	1535.5	1482.1	1557.2	1621.4	1762.8	1815.6	1656.6
40°	1670.8	1693.2	1759.4	1798.7	1743.2	1672.2	1724.3	1743.9	1823.7	1877.8	1713.4
42.5°	1857.5	1890.0	1957.6	1991.5	1986.7	1909.6	1894.1	1893.4	1867.7	1860.2	1755.4
45°	2036.8	2024.6	2128.8	2202.5	2262.0	2239.7	2057.8	2037.5	1937.4	1886.6	1766.2
47.5°	2115.3	2111.2	2182.2	2313.5	2516.4	2544.1	2295.9	2217.4	2055.1	1997.6	1825.1
50°	2013.8	2034.8	2105.1	2250.5	2561.7	2773.4	2588.1	2482.6	2192.4	2132.8	1964.4
52.5°	1682.3	1696.5	1763.5	1948.2	2407.5	2908.7	2868.1	2807.3	2444.7	2345.9	2207.3
54°	1383.3	1421.2	1457.7	1643.1	2132.8	2833.6	3021.7	2975.0	2609.1	2523.2	2360.1
55°	1204.8	1227.1	1253.5	1438.1	1942.8	2706.5	3004.1	3008.2	2719.3	2578.6	2463.0
57.5°	880.1	895.6	868.6	950.4	1334.0	2197.8	2747.7	2857.3	2868.1	2661.8	2525.9
60°	672.4	679.2	648.7	661.6	829.3	1508.5	2125.4	2257.3	2587.4	2326.3	2139.6
62.5°	521.5	522.9	522.2	544.5	571.6	887.5	1329.2	1446.2	1783.8	1651.9	1453.0
65°	384.2	378.1	389.0	456.6	487.7	558.1	700.1	785.4	969.4	818.5	585.1
67.5°	248.9	251.0	261.8	339.6	418.0	428.2	430.9	424.1	424.8	234.1	146.8
70°	149.5	152.9	149.5	192.1	299.0	307.1	280.7	274.0	213.8	55.5	54.8
72.5°	88.6	83.9	75.1	82.5	124.5	148.8	133.9	133.3	83.9	32.5	32.5
75°	37.2	33.8	27.7	25.0	33.1	31.8	31.8	28.4	22.3	21.6	20.3
77.5°	7.4	7.4	5.4	6.1	8.1	9.5	11.5	11.5	13.5	13.5	12.9
80°	0.0	0.7	2.0	4.1	6.1	8.8	10.1	10.1	11.5	11.5	9.5
82.5°	0.0	0.7	2.0	4.1	5.4	8.1	10.1	10.1	11.5	12.2	10.1
85°	0.0	0.7	2.0	3.4	5.4	6.8	6.8	6.1	4.7	4.1	2.7
87.5°	0.0	0.0	0.7	1.4	0.7	1.4	1.4	1.4	1.4	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

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1304.2	1304.2	1304.2	1304.2	1304.2	1304.2	1304.2	1304.2	1304.2	1304.2	1304.2
2.5°	1310.3	1309.6	1293.4	1267.0	1260.9	1238.6	1235.9	1222.3	1229.8	1204.8	1202.1
5°	1299.5	1291.3	1271.7	1254.8	1205.4	1170.3	1142.5	1108.7	1089.1	1092.5	1079.6
7.5°	1315.0	1294.0	1259.5	1200.7	1140.5	1078.9	1045.8	976.8	951.8	914.6	909.1
10°	1298.8	1283.2	1229.8	1132.4	1049.2	960.6	882.8	806.3	748.2	723.1	717.7
12.5°	1297.4	1270.4	1181.1	1072.8	952.4	825.3	712.3	616.9	559.4	527.0	519.5
15°	1276.5	1244.0	1126.3	980.9	814.4	656.2	533.0	441.0	397.1	378.1	383.5
17.5°	1278.5	1229.8	1071.5	883.4	678.5	481.6	363.9	316.6	305.1	309.8	309.8
20°	1276.5	1198.0	1005.2	771.2	519.5	334.2	267.2	250.3	257.7	272.6	269.2
22.5°	1265.6	1183.1	944.3	652.8	382.2	247.6	214.4	215.1	226.6	244.9	248.9
25°	1273.8	1150.0	867.2	533.0	278.7	197.5	186.0	190.8	202.9	216.5	219.2
27.5°	1267.7	1126.3	786.7	414.0	203.6	169.8	169.1	174.5	179.9	190.1	190.1
30°	1274.4	1104.6	707.6	307.8	167.8	155.6	152.9	156.9	162.3	164.4	163.7
32.5°	1299.5	1088.4	616.2	230.0	148.1	142.1	142.1	142.1	141.4	144.1	144.8
35°	1354.3	1091.1	535.7	177.9	135.3	130.6	128.5	125.8	124.5	125.8	126.5
37.5°	1413.8	1089.8	452.5	151.5	125.8	121.8	117.0	113.0	112.3	113.6	111.6
40°	1440.2	1102.6	375.4	136.0	117.0	112.3	104.8	101.5	102.1	103.5	102.1
42.5°	1476.0	1106.7	325.4	123.8	108.9	101.5	96.7	92.7	92.0	94.0	93.3
45°	1475.3	1083.7	272.6	117.0	101.5	93.3	87.3	83.9	83.9	85.2	85.9
47.5°	1518.6	1080.3	234.1	110.9	96.1	87.9	80.5	77.8	77.1	77.1	75.8
50°	1619.4	1127.6	204.3	104.2	89.3	81.9	75.8	72.4	69.7	68.3	67.6
52.5°	1816.3	1275.1	181.3	96.1	81.9	75.8	70.4	67.6	64.3	60.9	60.2
54°	2007.0	1427.3	179.9	89.3	75.8	71.7	67.0	65.6	61.6	56.8	55.5
55°	2092.9	1515.9	184.7	83.9	71.7	69.0	64.9	63.6	59.5	54.1	53.4
57.5°	2164.0	1550.4	182.0	69.7	64.9	64.3	60.9	58.9	54.1	46.7	45.3
60°	1741.9	1172.3	130.6	61.6	59.5	58.2	55.5	54.1	48.0	39.9	39.2
62.5°	1100.6	674.4	83.2	54.1	52.1	50.1	46.7	45.3	39.9	31.8	29.8
65°	468.8	279.4	56.1	48.0	44.6	41.3	38.6	36.5	31.8	23.7	23.0
67.5°	121.8	99.4	46.7	41.9	37.2	32.5	30.4	27.1	21.6	16.2	15.6
70°	54.8	50.1	39.2	35.2	29.8	25.0	22.3	18.9	14.2	10.8	10.1
72.5°	32.5	31.8	29.8	26.4	22.3	18.9	16.2	12.9	9.5	6.1	6.1
75°	20.3	19.6	20.3	18.3	15.6	14.2	12.2	8.8	5.4	2.7	2.7
77.5°	12.2	12.2	12.2	11.5	10.8	10.8	8.8	5.4	2.7	0.7	0.7
80°	9.5	9.5	10.1	9.5	9.5	9.5	7.4	4.1	1.4	0.0	0.0
82.5°	9.5	10.1	11.5	10.8	9.5	8.1	6.8	4.1	1.4	0.0	0.0
85°	2.7	2.0	3.4	4.7	6.8	6.1	4.7	3.4	1.4	0.0	0.0
87.5°	1.4	1.4	1.4	1.4	0.7	0.7	0.7	0.7	0.7	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)