

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: P526334

Luminaire Tested: **GALN-SA1B-735-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526334
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-735-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4546 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

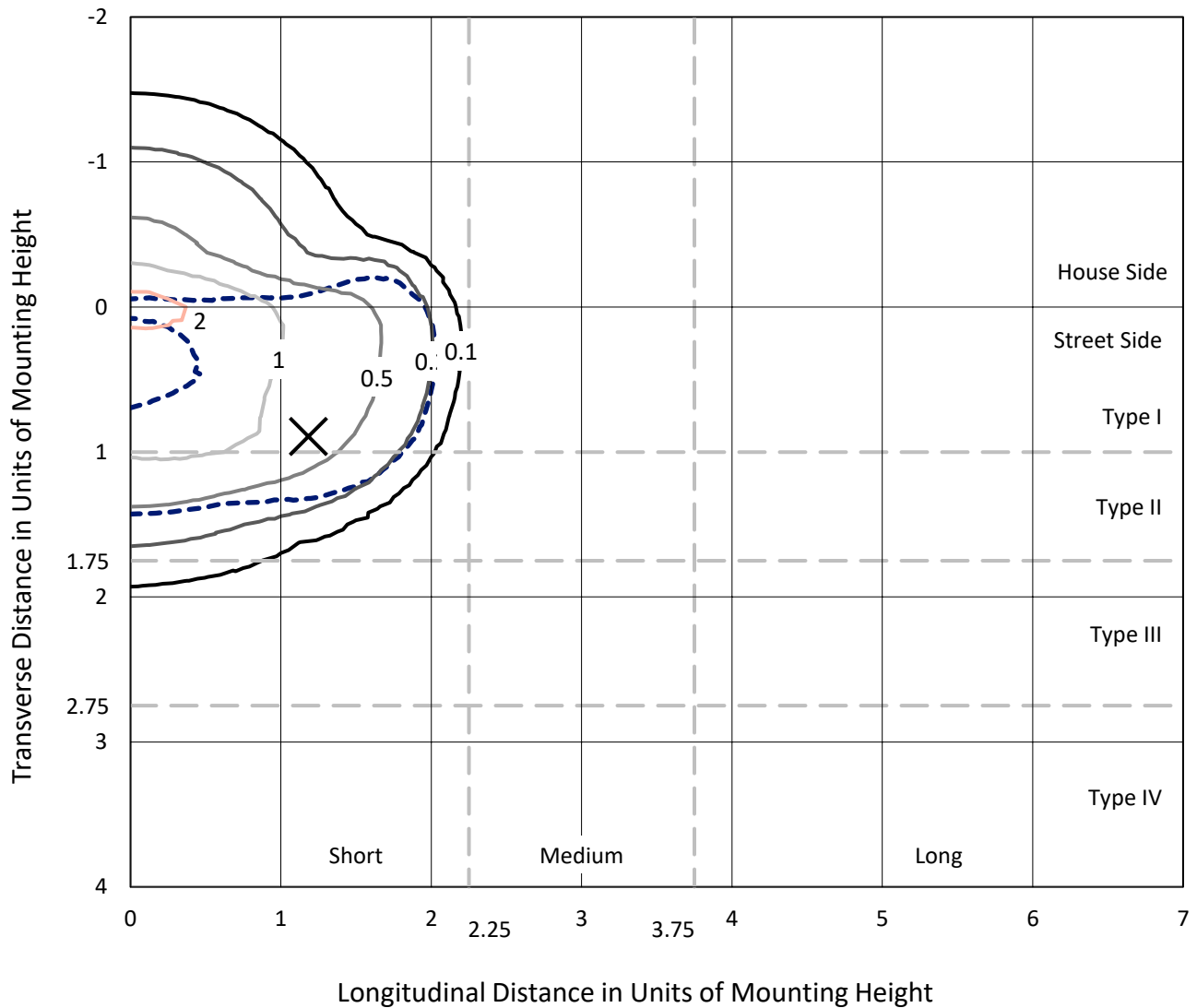
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

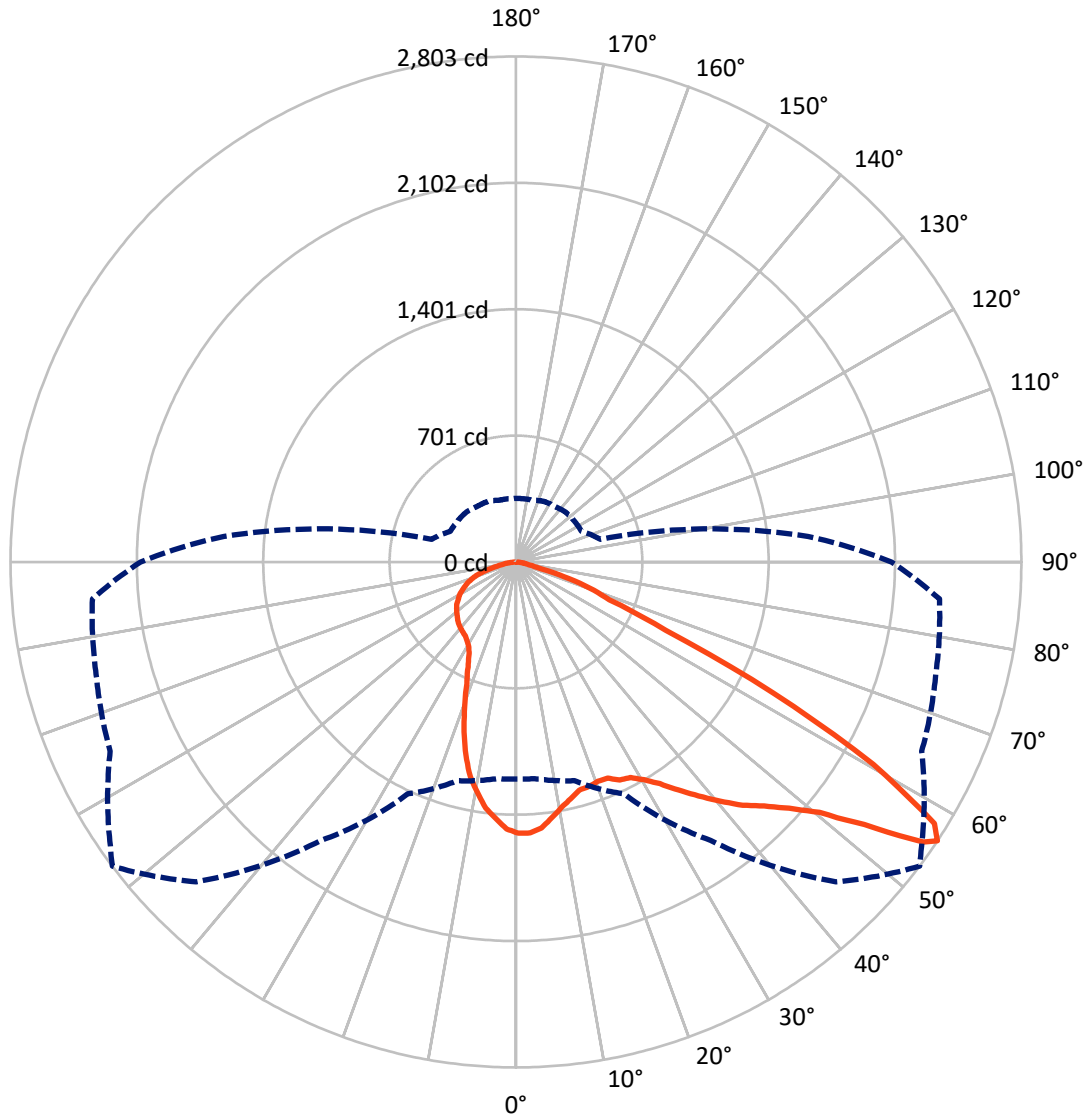
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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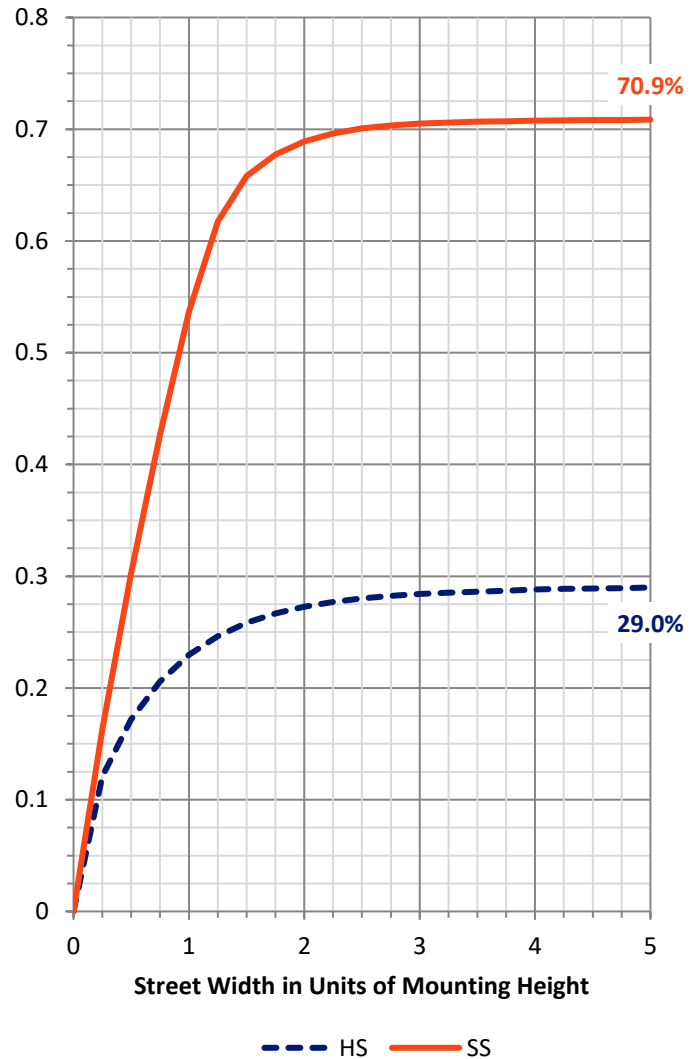
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1326.6	0.0	1326.6
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	3219.4	0.0	3219.4
	% Fixture	70.8	0.0	70.8
Total	Lumens	4546.0	0.0	4546.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.1	2.9
10°-20°	332.5	7.3
20°-30°	490.4	10.8
30°-40°	700.6	15.4
40°-50°	964.3	21.2
50°-60°	1139.6	25.1
60°-70°	607.3	13.4
70°-80°	154.1	3.4
80°-90°	24.0	0.5
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°	4546.0	100.0
0°-180°	4546.0	100.0



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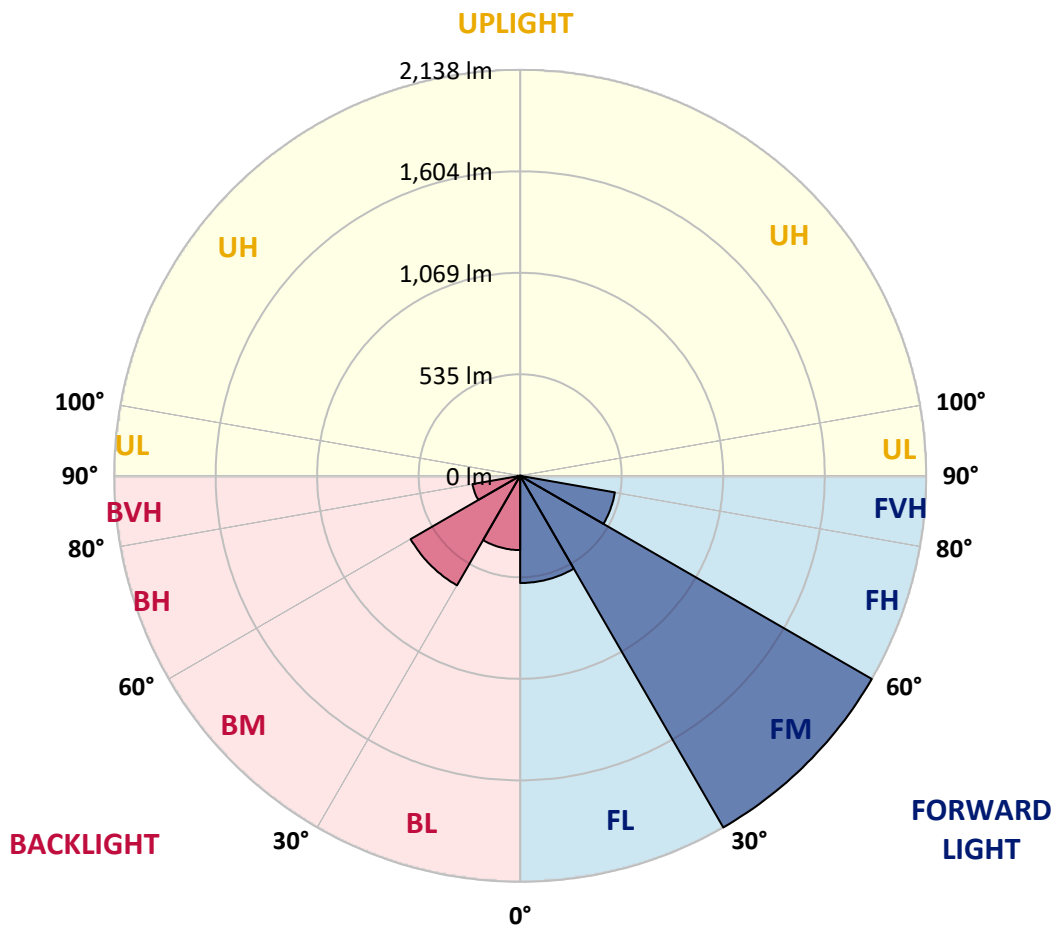
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	564.8	12.4			
FM (30°-60°)	2138.4	47.0			
FH (60°-80°)	506.6	11.1			G0/660
FVH (80°-90°)	9.7	0.2			G0/10
BL (0°-30°)	391.3	8.6	B1/500		
BM (30°-60°)	666.2	14.7	B1/1000		
BH (60°-80°)	254.8	5.6	B1/500		G1/500
BVH (80°-90°)	14.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	1504.0	1504.0	1504.0	1504.0	1504.0	1504.0	1504.0	1504.0	1504.0	1504.0	1504.0
2.5°	1485.3	1472.5	1480.1	1477.2	1501.1	1508.1	1504.6	1507.5	1520.9	1514.5	1501.1
5°	1387.9	1406.0	1409.5	1418.3	1432.3	1459.7	1481.3	1487.1	1493.5	1523.2	1520.3
7.5°	1299.3	1311.5	1305.1	1330.8	1361.1	1405.4	1431.7	1436.3	1495.2	1511.6	1523.8
10°	1243.3	1231.1	1260.2	1267.2	1301.6	1352.4	1383.9	1403.1	1456.8	1521.5	1529.1
12.5°	1191.4	1187.3	1204.8	1224.7	1263.1	1315.6	1347.7	1355.3	1438.1	1506.3	1541.9
15°	1152.9	1148.3	1165.8	1180.3	1225.2	1271.9	1312.7	1334.3	1417.7	1497.6	1530.8
17.5°	1122.6	1122.0	1131.9	1158.2	1204.2	1243.3	1309.2	1310.4	1407.2	1511.0	1540.2
20°	1120.9	1120.3	1122.0	1151.2	1193.2	1241.0	1298.1	1308.6	1407.2	1501.7	1540.7
22.5°	1135.4	1126.1	1136.6	1155.3	1185.6	1245.1	1302.2	1325.5	1441.0	1547.7	1567.0
25°	1158.8	1161.1	1166.9	1173.3	1190.8	1254.4	1338.4	1357.6	1480.7	1587.4	1603.1
27.5°	1201.3	1200.2	1202.5	1206.0	1221.2	1263.1	1353.0	1402.5	1563.5	1658.0	1642.2
30°	1263.7	1259.6	1269.0	1281.2	1267.2	1291.1	1401.4	1438.7	1640.5	1729.1	1685.9
32.5°	1320.3	1335.5	1353.0	1358.2	1341.3	1346.0	1465.5	1503.4	1704.6	1816.6	1739.6
35°	1390.9	1403.1	1426.4	1442.8	1439.8	1425.9	1553.0	1603.1	1797.3	1880.7	1796.2
37.5°	1459.7	1474.3	1512.7	1561.1	1534.3	1527.9	1646.3	1687.7	1825.9	1915.1	1837.6
40°	1570.5	1569.9	1636.4	1661.5	1685.4	1674.3	1743.1	1757.1	1841.1	1907.5	1838.7
42.5°	1700.5	1692.4	1760.0	1799.1	1830.0	1831.2	1844.0	1839.3	1848.1	1869.1	1826.5
45°	1824.2	1841.7	1909.9	1979.9	2010.8	2014.3	1929.1	1920.4	1860.3	1858.0	1803.2
47.5°	1975.2	1979.3	2035.3	2127.4	2199.1	2174.6	2039.3	2020.1	1914.0	1932.0	1842.2
50°	1983.9	2014.3	2064.4	2172.9	2393.3	2386.9	2182.2	2146.1	2000.3	2037.0	1951.3
52.5°	1800.8	1793.8	1853.3	2030.6	2378.8	2598.0	2419.0	2332.7	2185.7	2157.7	2128.0
55°	1372.2	1388.5	1441.0	1620.0	2065.6	2600.9	2741.5	2670.9	2384.0	2336.2	2301.8
56°	1203.7	1206.0	1255.6	1418.9	1884.8	2508.2	2802.7	2745.6	2482.6	2409.7	2357.2
57.5°	997.8	984.4	1010.1	1099.3	1590.9	2312.3	2735.7	2791.6	2598.0	2489.0	2416.1
60°	785.5	782.6	772.1	788.4	1005.4	1741.9	2277.3	2403.2	2586.4	2414.3	2314.0
62.5°	641.5	626.9	647.9	671.2	698.6	1080.6	1600.2	1674.3	2053.3	1927.4	1738.4
65°	497.4	490.4	516.7	592.5	608.8	686.4	911.5	968.6	1212.4	1190.8	1048.5
67.5°	342.3	343.5	366.2	481.7	564.5	557.5	558.1	587.8	632.7	470.0	409.4
70°	216.9	216.4	228.6	310.2	454.3	459.0	435.6	426.9	404.7	244.9	259.5
72.5°	139.4	135.3	141.7	171.5	235.0	271.8	279.9	285.2	234.4	192.4	208.8
75°	78.7	74.6	72.3	79.9	92.7	107.3	117.8	121.3	135.9	145.8	154.5
77.5°	23.9	21.6	26.2	35.0	46.1	61.8	75.2	77.6	91.6	103.2	112.0
80°	10.5	11.7	16.3	23.3	32.7	43.7	53.1	56.6	65.9	74.6	77.0
82.5°	6.4	7.0	11.1	15.7	22.7	30.9	37.9	39.1	48.4	55.4	57.2
85°	2.3	2.9	5.8	9.3	14.6	19.8	19.8	21.6	19.8	19.8	21.6
87.5°	0.0	0.0	0.6	1.2	1.2	1.7	2.3	2.3	2.9	3.5	4.1
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°	1504.0	1504.0	1504.0	1504.0	1504.0	1504.0	1504.0	1504.0	1504.0	1504.0	1504.0
2.5°	1508.1	1505.2	1500.5	1483.6	1481.8	1476.6	1447.4	1442.8	1447.4	1433.4	1434.6
5°	1505.2	1513.9	1478.9	1462.0	1430.5	1407.8	1381.5	1368.1	1344.2	1329.0	1346.0
7.5°	1518.0	1514.5	1470.8	1434.0	1386.8	1329.0	1283.0	1256.7	1214.7	1203.1	1211.8
10°	1513.3	1494.7	1443.3	1394.9	1305.7	1255.0	1180.3	1108.0	1068.4	1048.0	1045.0
12.5°	1506.9	1501.7	1415.9	1332.5	1238.7	1131.9	1027.0	958.7	894.0	866.0	870.1
15°	1514.5	1470.2	1364.6	1259.1	1134.3	994.3	881.2	793.1	748.2	730.1	730.1
17.5°	1511.0	1455.0	1340.1	1176.8	1018.8	853.2	729.0	675.9	657.2	657.2	662.5
20°	1512.7	1464.9	1290.6	1094.6	882.3	718.5	628.1	608.8	617.0	619.9	622.8
22.5°	1522.7	1432.3	1242.2	1004.2	755.8	614.7	570.3	570.9	585.5	601.2	598.3
25°	1534.9	1419.4	1183.3	914.4	659.0	563.9	549.9	548.2	559.3	567.4	568.6
27.5°	1524.4	1397.3	1123.2	802.4	579.7	530.1	527.2	528.4	531.9	548.2	542.9
30°	1558.8	1403.7	1048.0	708.6	535.9	519.0	515.5	513.8	519.0	523.7	519.6
32.5°	1601.4	1380.9	992.0	618.2	514.4	510.9	503.9	501.5	504.4	499.8	502.1
35°	1620.0	1376.9	919.1	553.4	497.4	494.5	490.4	489.9	490.4	486.4	482.9
37.5°	1630.5	1396.1	835.7	523.7	486.9	489.9	480.5	479.4	468.9	471.2	473.0
40°	1648.6	1366.4	768.0	495.1	480.5	474.7	466.5	464.8	457.8	453.7	457.8
42.5°	1622.4	1357.6	701.6	482.9	471.2	464.8	459.0	449.0	446.7	443.2	440.9
45°	1601.4	1307.5	642.1	467.7	460.1	456.6	445.5	435.0	426.3	429.8	424.5
47.5°	1617.1	1290.0	583.2	454.9	445.0	440.9	429.8	421.6	412.9	408.8	407.6
50°	1680.1	1322.6	533.6	445.5	432.1	429.8	415.2	405.9	397.7	394.8	396.0
52.5°	1830.6	1411.9	499.8	426.3	419.9	409.4	401.2	389.6	384.3	375.0	380.8
55°	2021.3	1557.1	491.0	408.2	404.7	395.4	384.3	375.6	365.6	358.1	356.3
56°	2082.5	1626.5	484.0	401.2	395.4	390.1	375.6	370.3	354.6	352.8	351.7
57.5°	2132.1	1687.7	485.2	387.8	382.0	377.3	368.6	355.7	345.2	338.8	341.7
60°	2020.1	1579.8	463.0	367.4	366.2	357.5	345.2	339.4	326.6	319.0	317.2
62.5°	1501.7	1072.5	375.6	341.2	340.6	331.2	317.2	310.8	308.5	298.0	298.0
65°	864.8	672.4	324.8	319.6	314.9	305.6	291.6	286.3	280.5	277.0	274.1
67.5°	369.1	348.7	295.1	294.5	289.3	277.6	263.6	255.4	247.8	240.8	244.3
70°	267.7	271.8	266.5	263.6	257.2	242.6	230.4	220.4	208.8	204.1	207.6
72.5°	212.3	221.0	228.6	229.2	221.6	204.7	191.3	177.9	165.0	158.6	161.5
75°	161.0	166.8	174.4	176.1	165.0	153.4	140.5	126.5	116.6	109.1	110.2
77.5°	116.1	114.9	121.9	120.7	115.5	107.3	95.6	82.8	71.7	64.7	65.3
80°	79.3	81.1	85.1	84.6	78.1	72.9	64.1	53.7	45.5	39.7	38.5
82.5°	55.4	58.3	61.8	58.9	53.7	48.4	42.0	34.4	28.0	23.3	22.2
85°	19.8	22.7	26.2	28.0	29.7	28.6	23.9	19.2	14.0	11.7	11.1
87.5°	4.1	4.7	5.2	5.2	5.2	4.7	4.1	4.1	3.5	1.7	1.7
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)