

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: P526517

Luminaire Tested: **GALN-SA1C-727-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526517
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-SA1C-727-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1050mA 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: 3479 lumens
Efficiency: N/A
Efficacy: 61.0 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

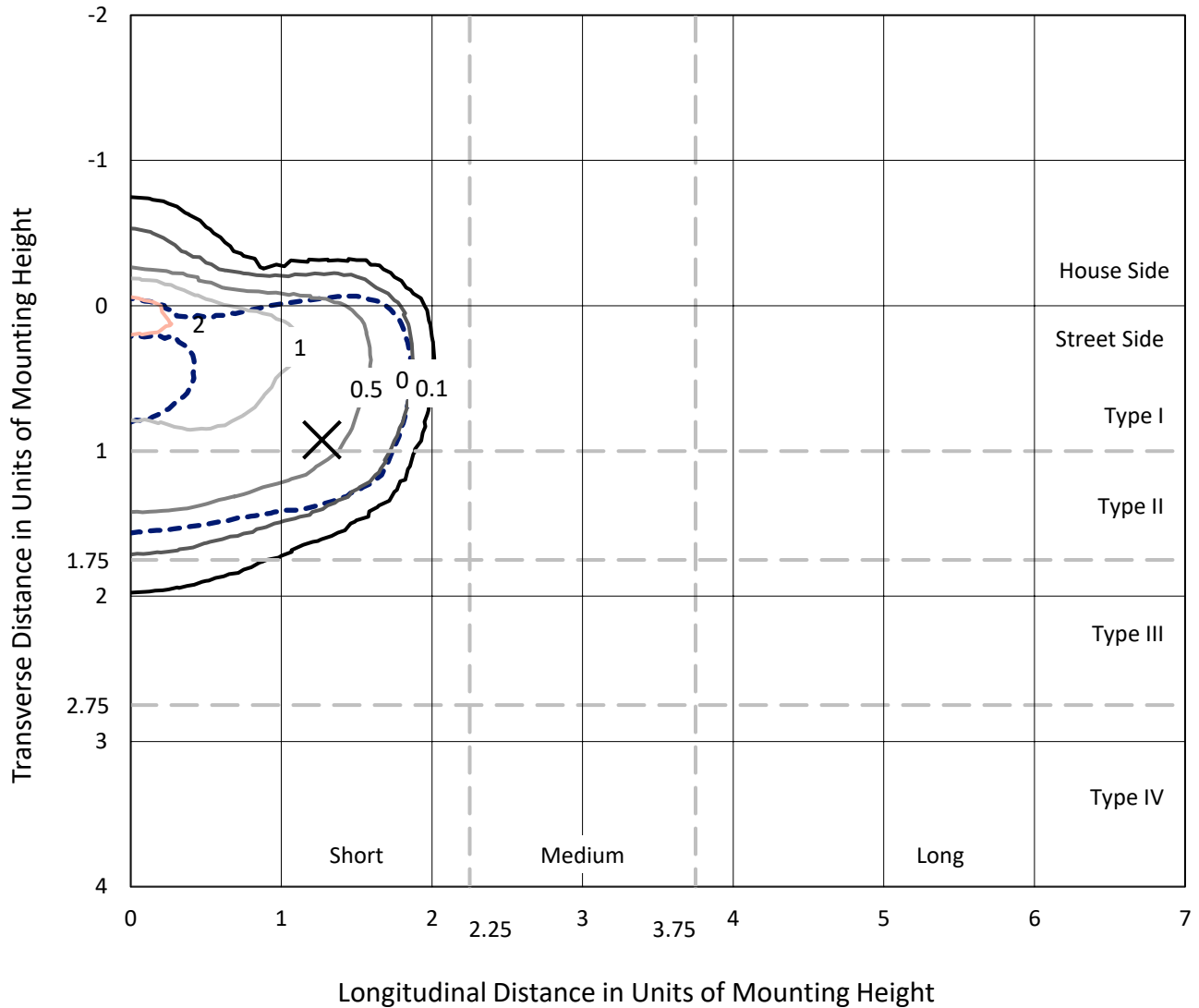
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

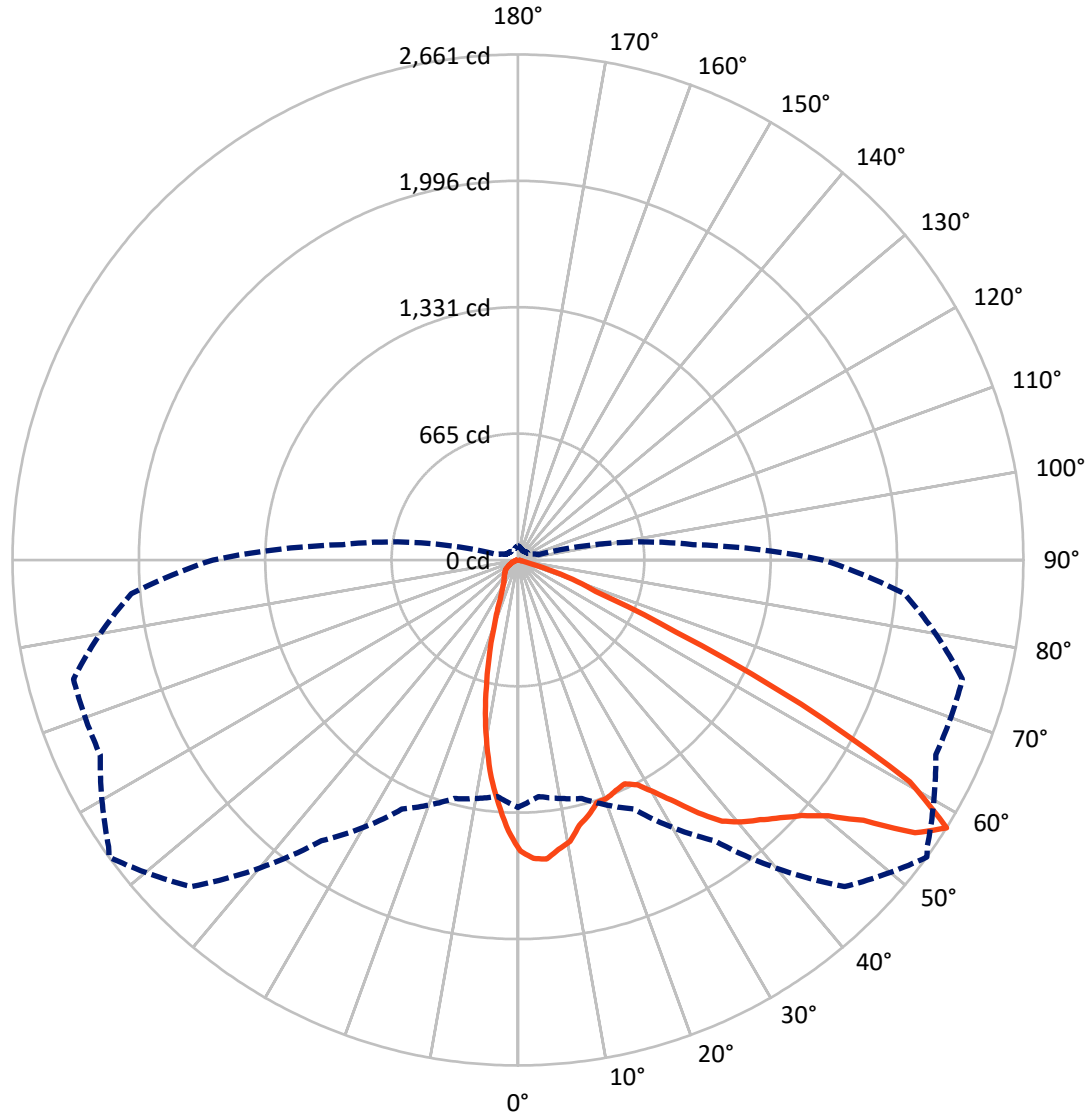
✕ Max cd
 - - - 1/2 Max cd



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



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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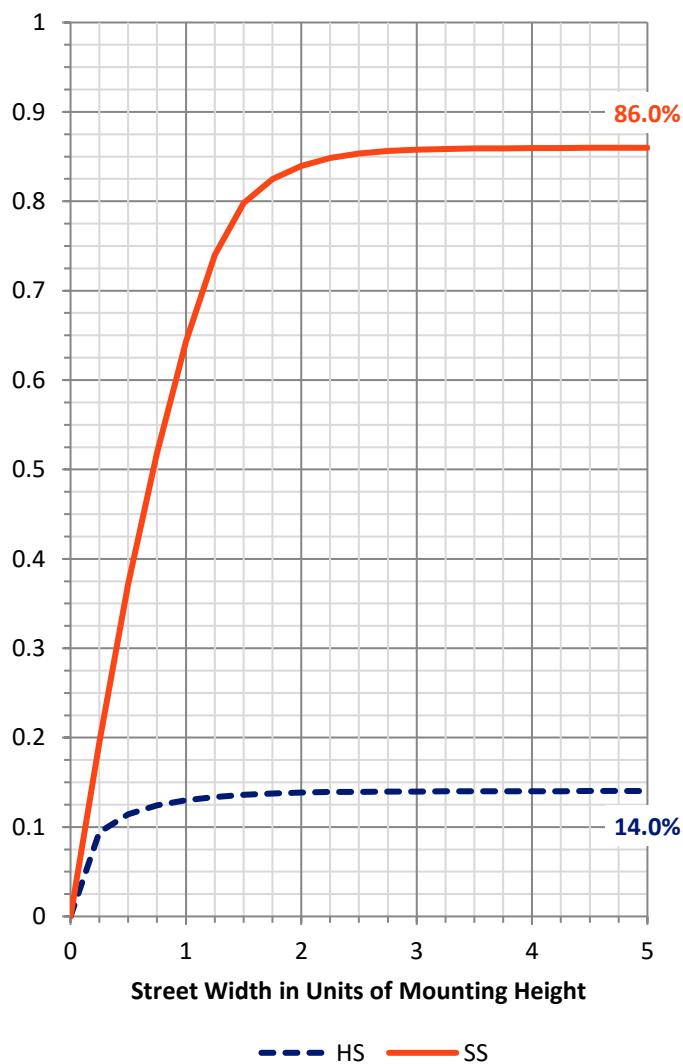
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	491.6	0.0	491.6
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	2987.4	0.0	2987.4
	% Fixture	85.9	0.0	85.9
Total	Lumens	3479.0	0.0	3479.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.2	3.7
10°-20°	273.8	7.9
20°-30°	362.8	10.4
30°-40°	527.3	15.2
40°-50°	781.9	22.5
50°-60°	977.8	28.1
60°-70°	385.7	11.1
70°-80°	38.4	1.1
80°-90°	3.0	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°	3479.0	100.0
0°-180°	3479.0	100.0

Coefficient of Utilization



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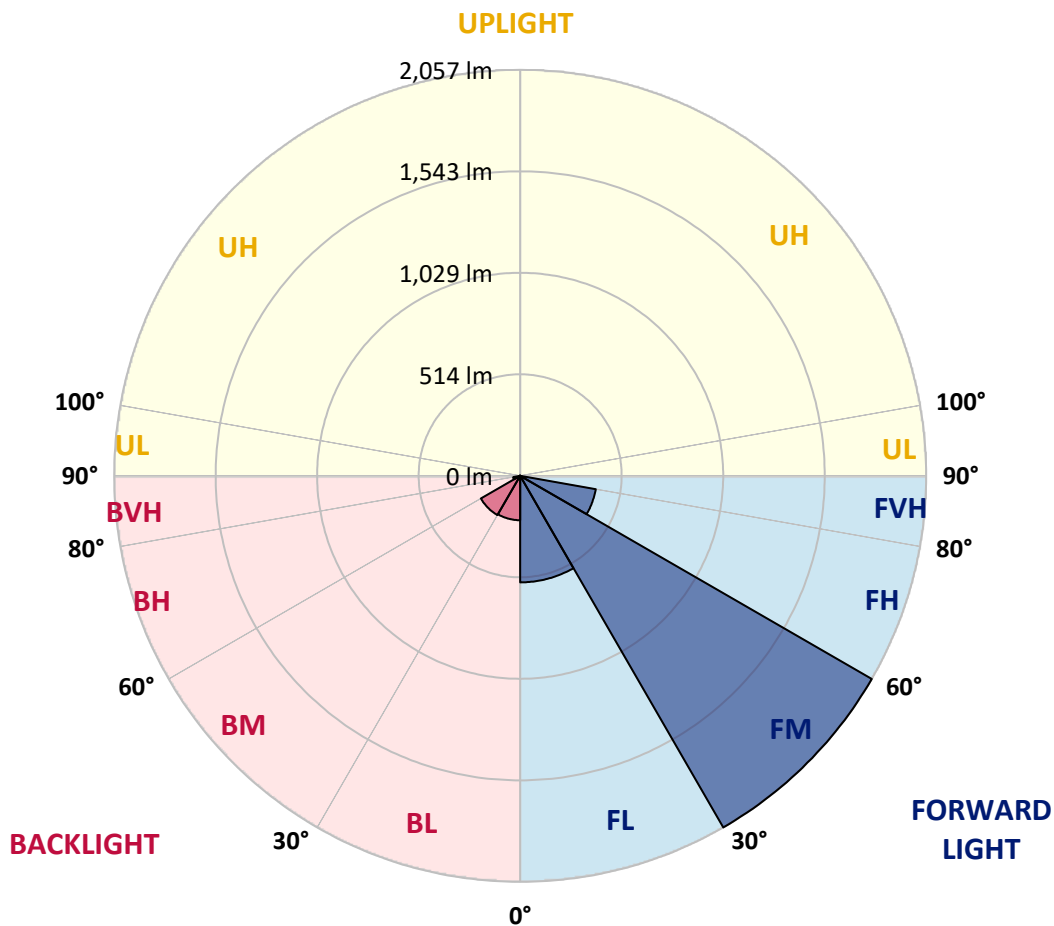
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	540.0	15.5			
FM (30°-60°)	2057.1	59.1			
FH (60°-80°)	388.8	11.2			G0/660
FVH (80°-90°)	1.4	0.0			G0/10
BL (0°-30°)	224.9	6.5	B1/500		
BM (30°-60°)	229.9	6.6	B1/1000		
BH (60°-80°)	35.3	1.0	B0/110		G0/110
BVH (80°-90°)	1.6	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°	1532.5	1532.5	1532.5	1532.5	1532.5	1532.5	1532.5	1532.5	1532.5	1532.5	1532.5
2.5°	1621.8	1605.0	1606.3	1600.5	1592.7	1598.5	1573.3	1579.1	1578.5	1544.2	1521.5
5°	1581.1	1599.2	1580.4	1595.9	1581.1	1597.2	1581.7	1570.1	1551.3	1526.1	1484.0
7.5°	1511.8	1494.4	1499.6	1519.0	1522.2	1558.4	1539.0	1553.9	1546.1	1496.3	1438.7
10°	1372.8	1368.9	1394.8	1420.6	1452.3	1491.1	1506.0	1497.6	1491.8	1473.0	1396.0
12.5°	1266.0	1277.0	1276.4	1319.1	1372.8	1394.8	1433.6	1432.3	1464.6	1429.7	1355.9
15°	1164.5	1170.3	1197.4	1224.0	1283.5	1346.2	1394.1	1400.6	1439.4	1414.8	1324.9
17.5°	1102.3	1093.9	1115.3	1147.0	1207.8	1290.0	1343.0	1358.5	1411.6	1406.4	1289.3
20°	1040.9	1040.9	1058.4	1095.9	1151.5	1244.0	1338.5	1333.9	1411.6	1396.7	1251.1
22.5°	1020.2	1030.5	1035.1	1063.5	1129.5	1209.1	1319.1	1327.5	1422.6	1392.2	1234.3
25°	1048.7	1035.1	1036.4	1059.0	1121.1	1192.3	1304.8	1323.6	1442.6	1414.8	1220.7
27.5°	1053.2	1066.8	1070.6	1086.2	1127.6	1197.4	1340.4	1378.6	1492.4	1467.9	1224.6
30°	1092.6	1106.2	1105.6	1132.1	1160.6	1239.5	1420.0	1427.7	1595.3	1534.5	1248.5
32.5°	1140.5	1154.7	1159.3	1190.3	1213.0	1316.5	1517.0	1537.1	1694.3	1639.3	1311.3
35°	1200.0	1194.9	1215.6	1246.6	1295.1	1429.0	1635.4	1669.0	1801.0	1775.1	1376.0
37.5°	1274.4	1268.0	1288.0	1338.5	1404.5	1562.3	1744.7	1766.7	1878.6	1901.3	1495.7
40°	1326.8	1329.4	1390.2	1458.2	1528.0	1689.1	1814.0	1835.3	1933.0	2019.0	1586.2
42.5°	1414.2	1430.3	1503.4	1586.2	1659.3	1784.2	1870.2	1890.9	1958.2	2113.5	1708.5
45°	1541.0	1533.8	1614.7	1707.2	1788.1	1883.2	1936.9	1929.8	1973.1	2207.3	1785.5
47.5°	1704.0	1705.3	1759.0	1837.9	1922.0	1969.2	2011.3	1986.0	2004.1	2306.3	1888.4
50°	1815.2	1825.0	1868.3	1949.2	1991.2	2063.7	2117.4	2101.8	2096.0	2365.8	1953.0
52.5°	1843.7	1872.8	1896.1	1997.0	2095.4	2209.9	2278.4	2311.4	2207.9	2385.8	2035.2
55°	1628.9	1654.8	1737.0	1875.4	2134.8	2441.5	2535.9	2536.6	2354.1	2475.1	2092.8
57.5°	1302.2	1249.8	1300.3	1447.2	1804.9	2431.8	2661.4	2631.0	2427.2	2422.7	2043.0
60°	900.5	887.6	890.8	949.0	1249.2	1934.3	2371.6	2411.1	2235.1	2099.9	1617.3
62.5°	713.5	702.6	688.3	681.9	775.7	1205.2	1672.9	1728.6	1563.0	1361.8	958.7
65°	558.9	552.5	554.4	580.3	579.6	683.8	914.7	892.1	714.2	527.9	301.5
67.5°	377.2	386.9	394.6	472.9	513.0	476.1	441.8	428.9	232.2	97.7	66.6
70°	212.2	213.5	221.9	295.6	389.4	369.4	304.7	304.7	115.8	35.6	38.2
72.5°	115.8	111.9	104.2	127.4	173.4	176.0	135.9	118.4	34.3	23.3	21.3
75°	56.3	55.6	47.9	39.5	37.5	31.1	23.9	22.0	15.5	14.9	12.9
77.5°	11.6	11.0	5.8	5.8	6.5	7.1	9.1	9.1	11.0	11.0	9.1
80°	0.0	0.0	0.6	2.6	4.5	6.5	7.8	7.8	9.1	9.1	7.1
82.5°	0.0	0.0	0.6	1.9	3.9	5.8	7.1	7.8	9.1	9.7	7.8
85°	0.0	0.0	0.0	1.3	3.2	4.5	3.9	3.9	3.2	2.6	1.3
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°	1532.5	1532.5	1532.5	1532.5	1532.5	1532.5	1532.5	1532.5	1532.5	1532.5	1532.5
2.5°	1509.9	1508.6	1478.9	1462.0	1431.6	1405.1	1383.8	1368.2	1368.2	1358.5	1349.5
5°	1467.2	1456.2	1392.8	1352.1	1294.5	1251.8	1222.7	1200.0	1164.5	1174.2	1136.0
7.5°	1414.2	1386.3	1302.2	1240.1	1160.6	1099.8	1037.7	982.7	929.6	905.7	918.6
10°	1357.2	1308.7	1195.5	1097.2	998.2	886.9	814.5	726.5	672.1	668.9	654.7
12.5°	1297.1	1242.1	1104.3	968.4	838.4	704.5	593.9	511.7	474.8	434.1	441.8
15°	1251.8	1170.3	1002.7	839.1	666.3	531.1	419.8	356.5	321.5	311.8	308.6
17.5°	1202.6	1115.3	899.2	701.3	522.7	382.3	302.1	271.7	258.1	258.1	256.2
20°	1151.5	1053.2	796.4	573.2	392.0	285.3	241.9	232.2	231.6	230.9	230.9
22.5°	1117.9	982.0	703.2	455.4	295.6	228.4	210.2	206.4	209.0	216.7	216.7
25°	1082.3	913.4	600.3	351.3	229.0	196.0	185.7	188.3	194.7	201.8	199.3
27.5°	1046.1	868.8	503.3	275.6	187.6	171.4	167.6	173.4	180.5	187.0	185.0
30°	1037.7	820.9	411.4	209.0	161.1	149.4	152.0	157.2	164.3	166.9	169.5
32.5°	1050.6	783.4	337.0	171.4	140.4	137.1	137.1	139.7	144.3	150.1	148.1
35°	1087.5	762.1	266.5	148.8	128.7	125.5	124.9	127.4	130.0	132.0	130.0
37.5°	1143.7	745.2	218.0	132.0	121.0	115.8	114.5	113.9	116.4	117.1	118.4
40°	1215.6	754.3	185.0	121.6	113.2	107.4	103.5	103.5	103.5	105.4	106.1
42.5°	1293.2	766.6	159.8	115.8	106.1	99.0	95.1	93.8	95.1	97.7	97.0
45°	1374.7	790.5	143.6	106.7	99.6	90.6	85.4	84.1	87.3	92.5	91.9
47.5°	1451.0	824.8	131.3	100.9	93.2	84.7	78.3	77.0	82.8	89.9	90.6
50°	1527.4	884.3	126.8	96.4	88.6	78.9	73.1	71.8	78.3	87.3	89.3
52.5°	1615.4	948.4	123.6	90.6	83.5	74.4	67.9	66.6	73.7	85.4	86.0
55°	1672.9	1002.7	121.0	80.2	73.7	67.3	62.1	61.5	69.2	79.6	82.2
57.5°	1605.6	927.0	111.9	69.9	62.8	59.5	55.0	55.0	61.5	71.2	73.1
60°	1217.5	610.0	79.6	56.3	53.0	51.1	49.2	49.2	54.3	61.5	62.1
62.5°	712.9	328.6	51.1	45.3	45.3	43.3	40.1	40.1	45.3	49.2	49.8
65°	211.5	105.4	41.4	38.8	38.2	34.9	31.7	31.1	34.9	36.9	36.2
67.5°	60.8	48.5	34.3	32.3	31.7	26.5	24.6	23.9	24.6	23.3	22.6
70°	36.2	33.0	26.5	27.2	23.9	19.4	17.5	16.8	15.5	13.6	12.3
72.5°	20.1	20.1	19.4	20.7	16.8	12.9	11.0	9.1	7.1	5.8	5.2
75°	12.3	12.9	13.6	14.2	11.0	8.4	7.1	4.5	2.6	1.3	1.3
77.5°	8.4	9.1	9.7	10.4	9.1	7.8	5.8	3.2	0.6	0.0	0.0
80°	6.5	7.1	8.4	9.1	9.7	10.4	7.8	3.2	0.6	0.0	0.0
82.5°	7.1	7.8	9.7	9.1	9.1	9.1	7.1	3.2	0.6	0.0	0.0
85°	1.3	1.9	3.2	3.2	4.5	5.8	4.5	1.3	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)