

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: P650683

Luminaire Tested: **GALN-SA1C-840-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650683
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-840-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 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: 3498.6 lumens
Efficiency: N/A
Efficacy: 61.4 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

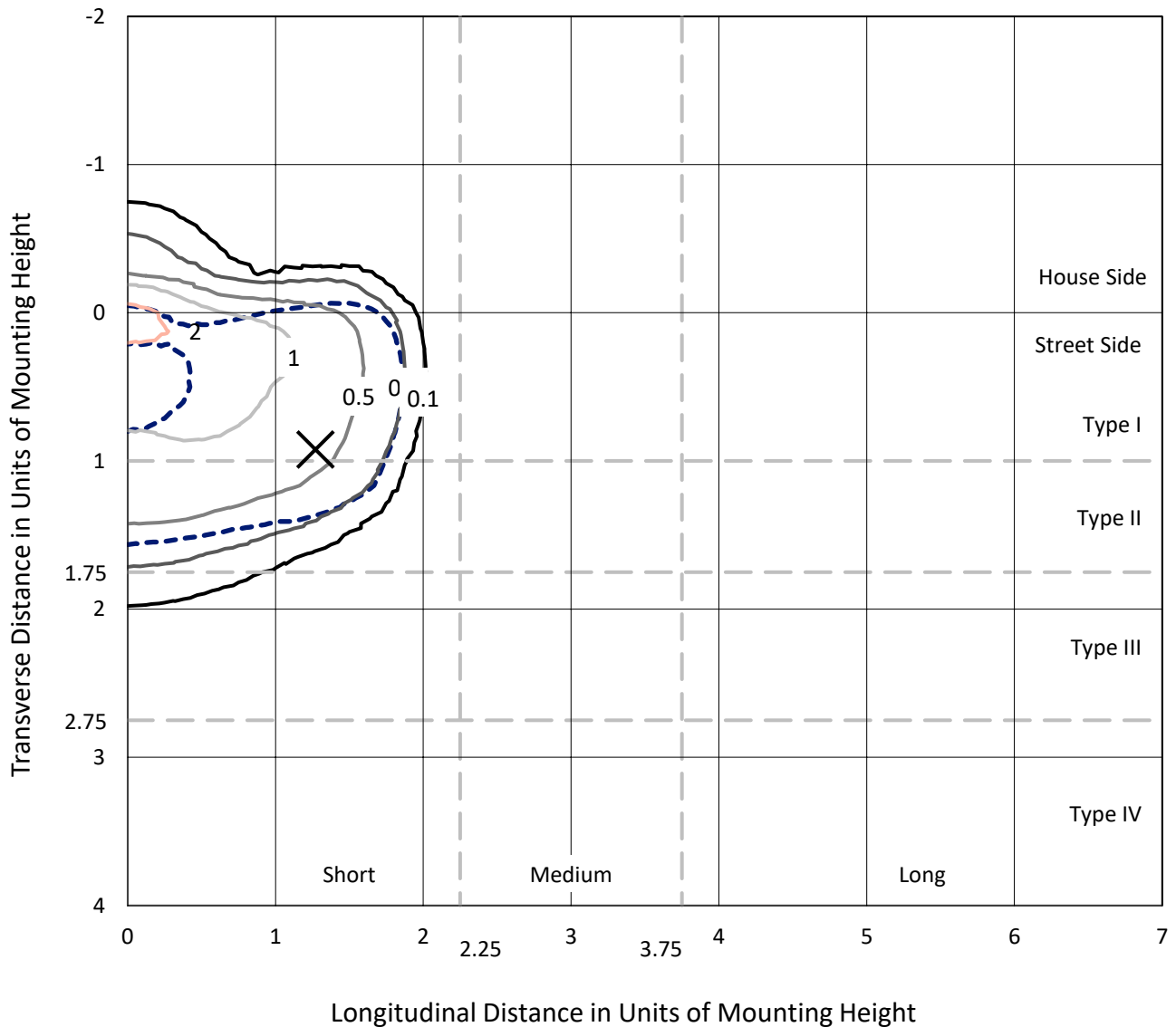
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

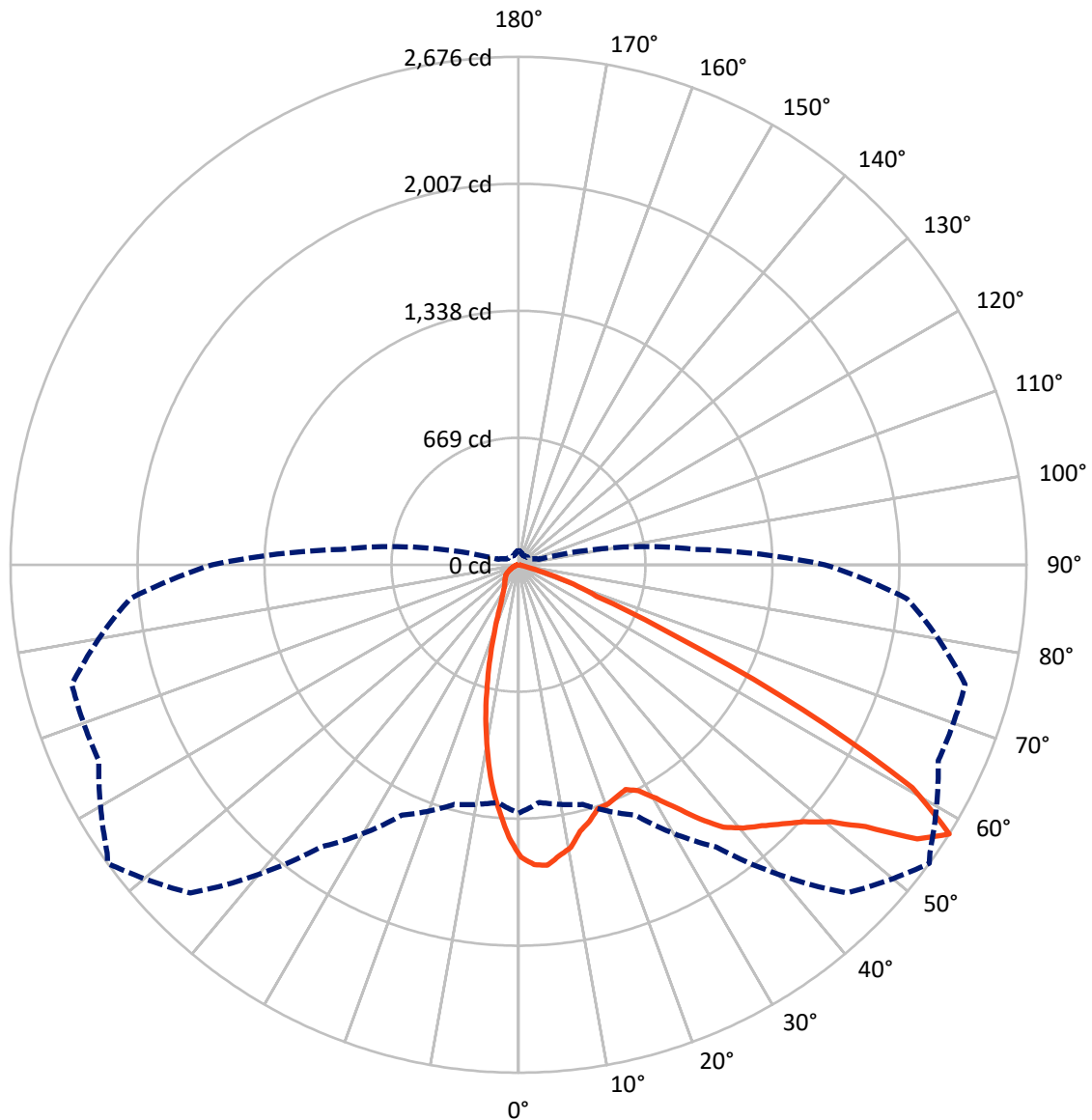
× Max cd
 - - - 1/2 Max cd



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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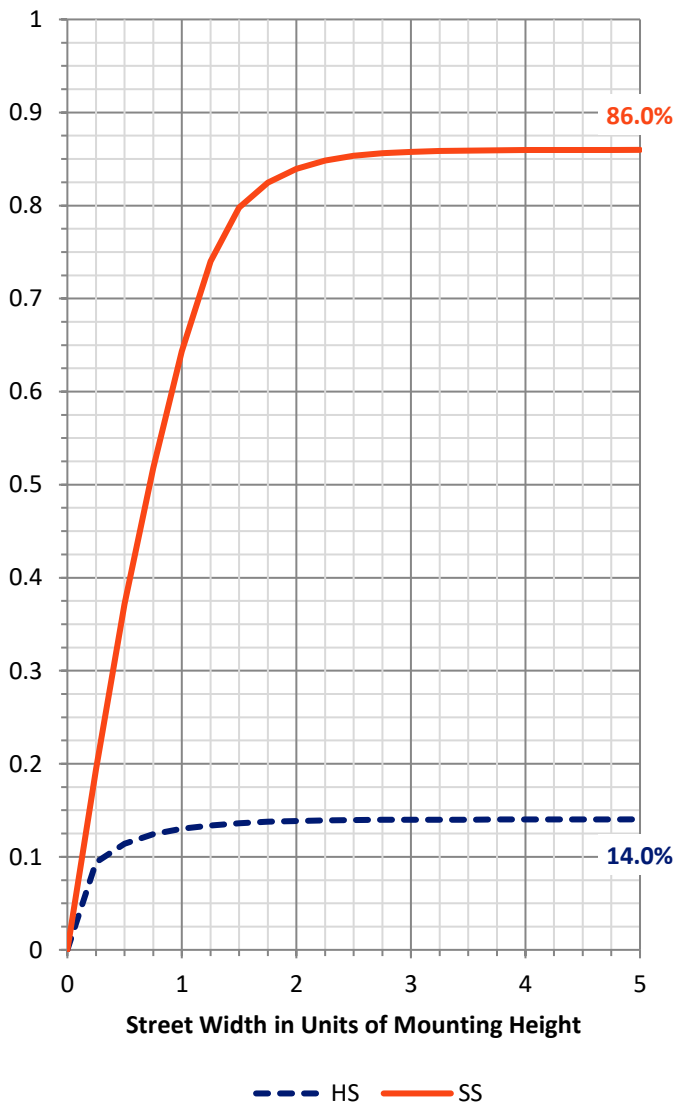
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	494.4	0.0	494.4
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	3004.2	0.0	3004.2
	% Fixture	85.9	0.0	85.9
Total	Lumens	3498.6	0.0	3498.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.0	3.7
10°-20°	275.3	7.9
20°-30°	364.9	10.4
30°-40°	530.3	15.2
40°-50°	786.3	22.5
50°-60°	983.3	28.1
60°-70°	387.9	11.1
70°-80°	38.6	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°	3498.6	100.0
0°-180°	3498.6	100.0

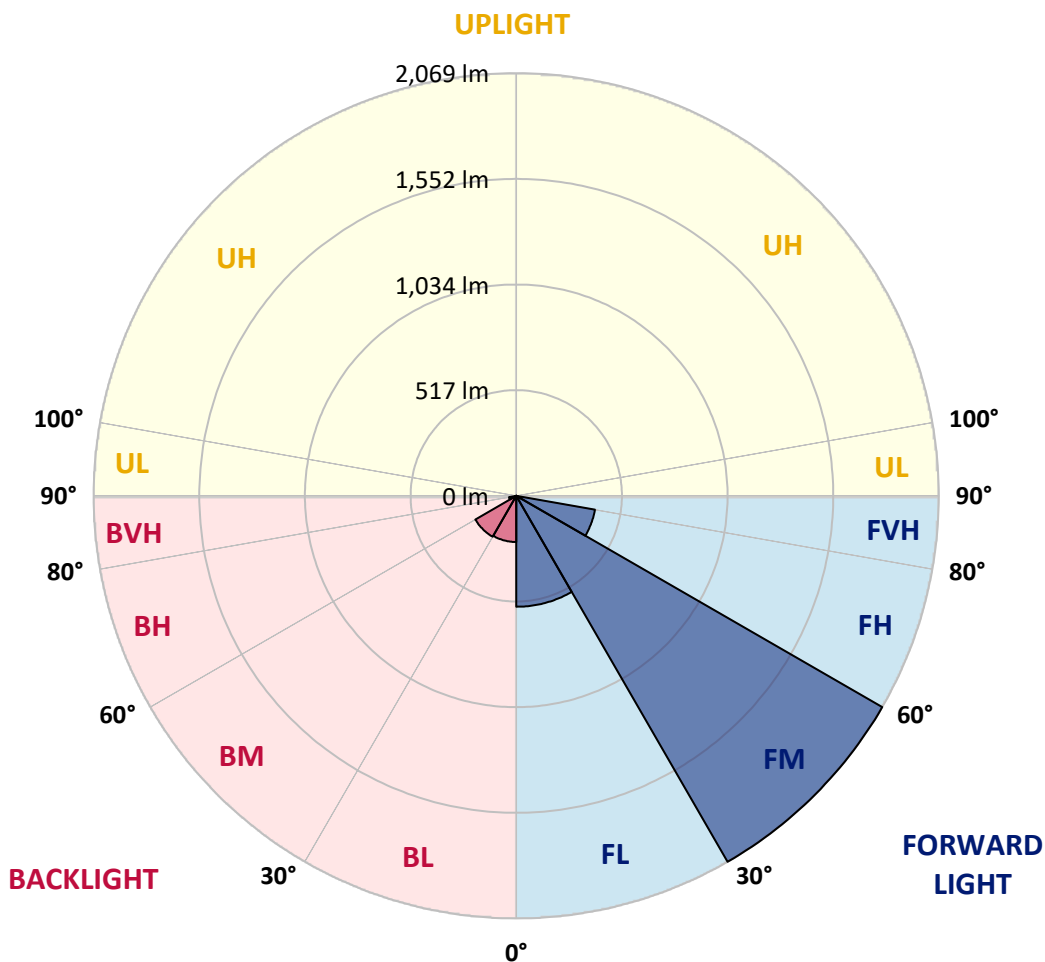


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	543.1	15.5			
FM	(30°-60°)	2068.7	59.1			
FH	(60°-80°)	391.0	11.2			G0/660
FVH	(80°-90°)	1.4	0.0			G0/10
BL	(0°-30°)	226.1	6.5	B1/500		
BM	(30°-60°)	231.2	6.6	B1/1000		
BH	(60°-80°)	35.5	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°	1541.1	1541.1	1541.1	1541.1	1541.1	1541.1	1541.1	1541.1	1541.1	1541.1	1541.1
2.5°	1631.0	1614.0	1615.3	1609.5	1601.7	1607.5	1582.2	1588.0	1587.4	1552.9	1530.1
5°	1590.0	1608.2	1589.3	1604.9	1590.0	1606.2	1590.6	1578.9	1560.1	1534.7	1492.4
7.5°	1520.4	1502.8	1508.0	1527.5	1530.8	1567.2	1547.7	1562.7	1554.8	1504.7	1446.9
10°	1380.5	1376.5	1402.6	1428.6	1460.5	1499.5	1514.5	1506.1	1500.2	1481.3	1403.9
12.5°	1273.1	1284.2	1283.5	1326.5	1380.5	1402.6	1441.6	1440.3	1472.8	1437.7	1363.6
15°	1171.0	1176.8	1204.1	1230.9	1290.7	1353.8	1401.9	1408.4	1447.4	1422.8	1332.3
17.5°	1108.5	1100.1	1121.6	1153.4	1214.6	1297.2	1350.6	1366.2	1419.5	1414.3	1296.6
20°	1046.7	1046.7	1064.3	1102.0	1158.0	1251.0	1346.0	1341.5	1419.5	1404.6	1258.1
22.5°	1025.9	1036.4	1040.9	1069.5	1135.9	1215.9	1326.5	1334.9	1430.5	1400.0	1241.2
25°	1054.5	1040.9	1042.2	1065.0	1127.4	1198.9	1312.1	1331.1	1450.7	1422.8	1227.6
27.5°	1059.1	1072.8	1076.6	1092.3	1133.9	1204.1	1348.0	1386.3	1500.8	1476.1	1231.5
30°	1098.8	1112.5	1111.8	1138.5	1167.1	1246.4	1427.9	1435.8	1604.3	1543.2	1255.5
32.5°	1147.0	1161.3	1165.8	1197.0	1219.8	1323.9	1525.6	1545.8	1703.8	1648.5	1318.7
35°	1206.8	1201.5	1222.4	1253.6	1302.4	1437.1	1644.6	1678.5	1811.2	1785.1	1383.7
37.5°	1281.6	1275.1	1295.2	1346.0	1412.4	1571.1	1754.6	1776.7	1889.2	1912.0	1504.0
40°	1334.2	1336.9	1398.1	1466.4	1536.6	1698.6	1824.1	1845.7	1943.9	2030.3	1595.1
42.5°	1422.1	1438.4	1511.9	1595.1	1668.7	1794.2	1880.7	1901.6	1969.2	2125.4	1718.1
45°	1549.6	1542.5	1623.8	1716.8	1798.1	1893.8	1947.8	1940.6	1984.2	2219.7	1795.5
47.5°	1713.5	1714.9	1768.9	1848.3	1932.8	1980.3	2022.6	1997.2	2015.5	2319.2	1899.0
50°	1825.5	1835.2	1878.8	1960.1	2002.4	2075.3	2129.2	2113.7	2107.8	2379.1	1964.0
52.5°	1854.1	1883.3	1906.8	2008.2	2107.1	2222.3	2291.2	2324.4	2220.3	2399.2	2046.7
55°	1638.1	1664.1	1746.8	1885.9	2146.8	2455.2	2550.2	2550.8	2367.3	2489.0	2104.5
57.5°	1309.6	1256.9	1307.6	1455.3	1815.0	2445.5	2676.4	2645.8	2440.9	2436.3	2054.5
60°	905.6	892.6	895.8	954.4	1256.2	1945.1	2384.9	2424.6	2247.7	2111.7	1626.4
62.5°	717.5	706.5	692.2	685.7	780.0	1212.0	1682.3	1738.3	1571.7	1369.4	964.1
65°	562.0	555.6	557.5	583.6	582.9	687.6	919.9	897.1	718.2	530.8	303.2
67.5°	379.3	389.0	396.9	475.6	515.9	478.8	444.3	431.3	233.5	98.2	67.0
70°	213.4	214.7	223.1	297.3	391.7	371.5	306.4	306.4	116.5	35.7	38.3
72.5°	116.5	112.5	104.7	128.2	174.3	176.9	136.6	119.1	34.5	23.4	21.4
75°	56.6	55.9	48.1	39.7	37.8	31.2	24.1	22.1	15.6	15.0	13.0
77.5°	11.7	11.1	5.9	5.9	6.5	7.1	9.1	9.1	11.1	11.1	9.1
80°	0.0	0.0	0.7	2.6	4.5	6.5	7.8	7.8	9.1	9.1	7.1
82.5°	0.0	0.0	0.7	1.9	3.9	5.9	7.1	7.8	9.1	9.8	7.8
85°	0.0	0.0	0.0	1.3	3.3	4.5	3.9	3.9	3.3	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°	1541.1	1541.1	1541.1	1541.1	1541.1	1541.1	1541.1	1541.1	1541.1	1541.1	1541.1
2.5°	1518.4	1517.1	1487.1	1470.2	1439.7	1413.0	1391.5	1376.0	1376.0	1366.2	1357.0
5°	1475.5	1464.4	1400.6	1359.6	1301.8	1258.8	1229.5	1206.8	1171.0	1180.8	1142.4
7.5°	1422.1	1394.1	1309.6	1247.1	1167.1	1105.9	1043.5	988.2	934.9	910.8	923.8
10°	1364.9	1316.1	1202.2	1103.3	1003.8	891.9	819.0	730.6	675.9	672.6	658.3
12.5°	1304.4	1249.1	1110.5	973.9	843.1	708.5	597.2	514.6	477.5	436.6	444.3
15°	1258.8	1176.8	1008.4	843.8	670.1	534.1	422.2	358.4	323.4	313.6	310.3
17.5°	1209.4	1121.6	904.2	705.2	525.6	384.5	303.8	273.2	259.5	259.5	257.6
20°	1158.0	1059.1	800.8	576.4	394.3	286.9	243.3	233.5	232.9	232.3	232.3
22.5°	1124.2	987.5	707.1	458.0	297.3	229.7	211.4	207.6	210.2	217.9	217.9
25°	1088.3	918.6	603.8	353.2	230.3	197.1	186.7	189.3	195.8	202.9	200.4
27.5°	1051.9	873.7	506.1	277.1	188.6	172.4	168.5	174.3	181.5	188.0	186.0
30°	1043.5	825.5	413.8	210.2	162.0	150.3	152.9	158.1	165.3	167.9	170.5
32.5°	1056.5	787.8	338.9	172.4	141.2	137.9	137.9	140.5	145.1	151.0	148.9
35°	1093.6	766.3	268.0	149.6	129.4	126.2	125.6	128.2	130.8	132.7	130.8
37.5°	1150.2	749.4	219.2	132.7	121.7	116.5	115.1	114.5	117.1	117.7	119.1
40°	1222.4	758.6	186.0	122.3	113.9	108.0	104.1	104.1	104.1	106.1	106.7
42.5°	1300.4	770.9	160.7	116.5	106.7	99.6	95.6	94.4	95.6	98.2	97.6
45°	1382.4	795.0	144.4	107.3	100.2	91.1	85.9	84.6	87.8	93.0	92.3
47.5°	1459.2	829.5	132.0	101.5	93.7	85.2	78.7	77.5	83.3	90.4	91.1
50°	1535.9	889.3	127.5	97.0	89.1	79.4	73.5	72.2	78.7	87.8	89.7
52.5°	1624.5	953.7	124.2	91.1	83.9	74.8	68.3	67.0	74.2	85.9	86.5
55°	1682.3	1008.4	121.7	80.7	74.2	67.6	62.5	61.8	69.6	80.0	82.6
57.5°	1614.6	932.2	112.5	70.2	63.1	59.9	55.3	55.3	61.8	71.6	73.5
60°	1224.3	613.5	80.0	56.6	53.3	51.4	49.5	49.5	54.7	61.8	62.5
62.5°	717.0	330.5	51.4	45.5	45.5	43.6	40.4	40.4	45.5	49.5	50.1
65°	212.8	106.1	41.6	39.0	38.3	35.2	31.9	31.2	35.2	37.1	36.4
67.5°	61.1	48.8	34.5	32.5	31.9	26.7	24.7	24.1	24.7	23.4	22.8
70°	36.4	33.2	26.7	27.3	24.1	19.5	17.6	16.9	15.6	13.6	12.4
72.5°	20.2	20.2	19.5	20.9	16.9	13.0	11.1	9.1	7.1	5.9	5.2
75°	12.4	13.0	13.6	14.3	11.1	8.5	7.1	4.5	2.6	1.3	1.3
77.5°	8.5	9.1	9.8	10.4	9.1	7.8	5.9	3.3	0.7	0.0	0.0
80°	6.5	7.1	8.5	9.1	9.8	10.4	7.8	3.3	0.7	0.0	0.0
82.5°	7.1	7.8	9.8	9.1	9.1	9.1	7.1	3.3	0.7	0.0	0.0
85°	1.3	1.9	3.3	3.3	4.5	5.9	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)