

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: P323655

Luminaire Tested: **GLEON-SA1D-827-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323655
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA1D-827-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5102 lumens
Efficiency: N/A
Efficacy: 76.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

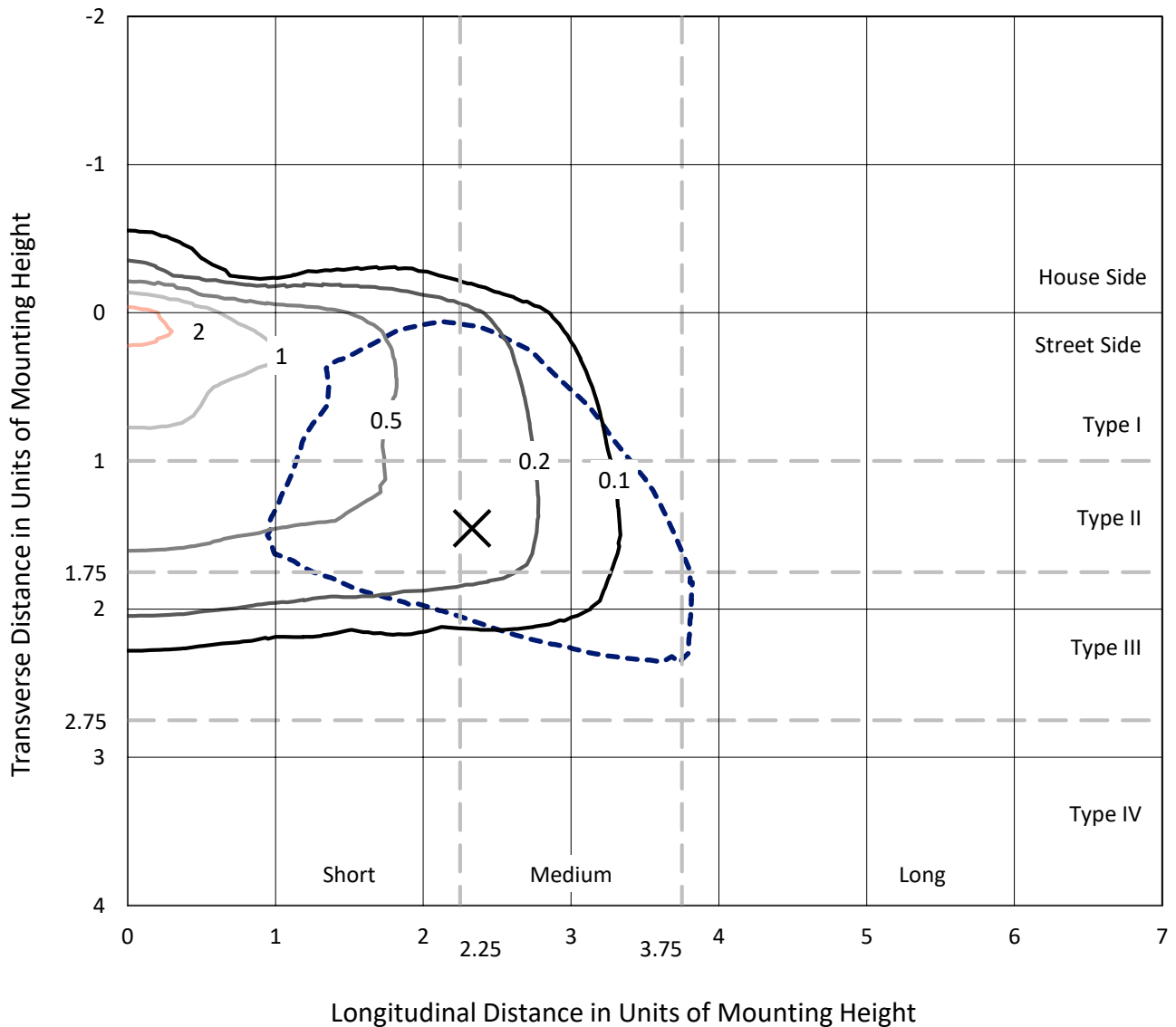
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

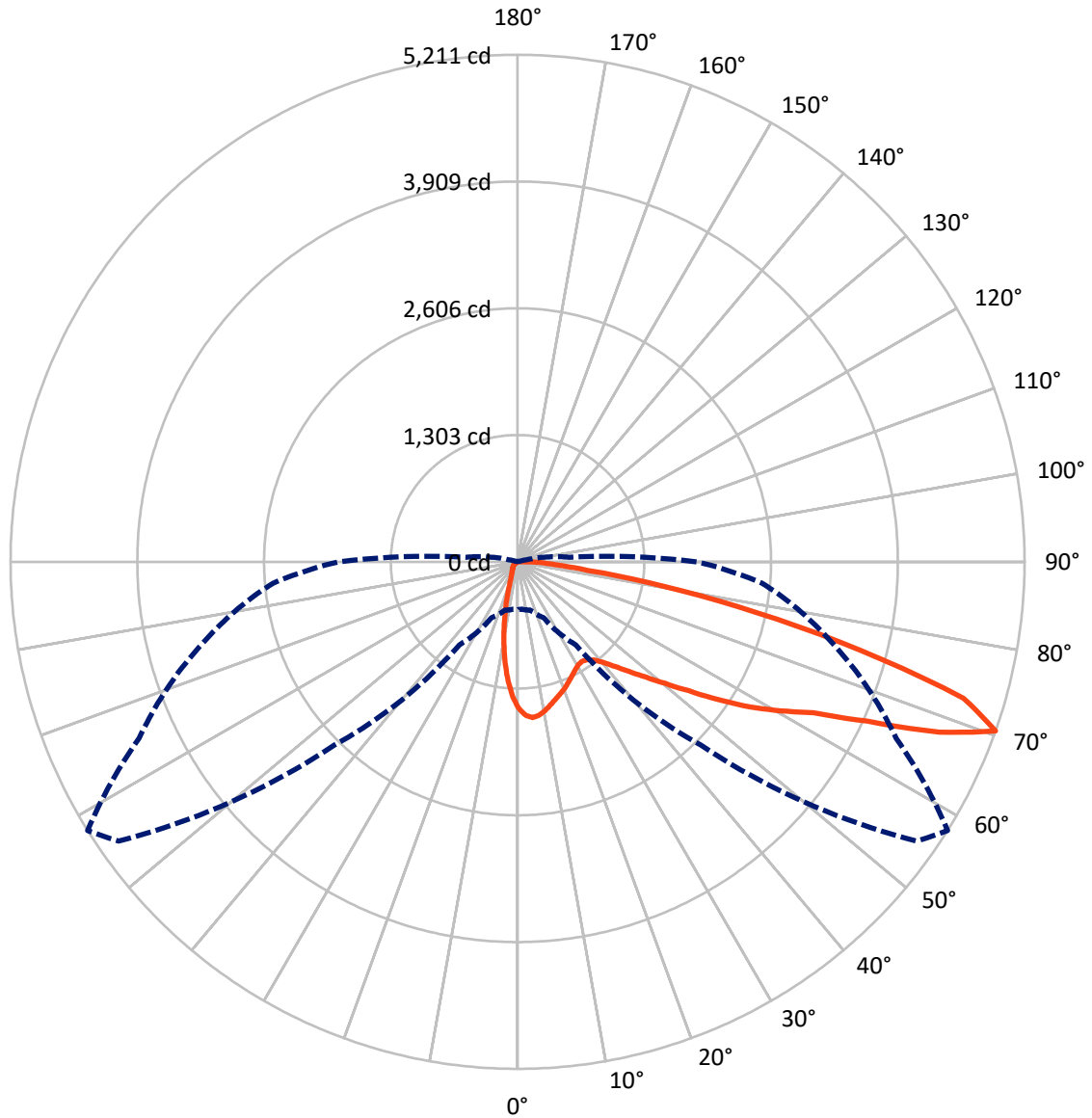
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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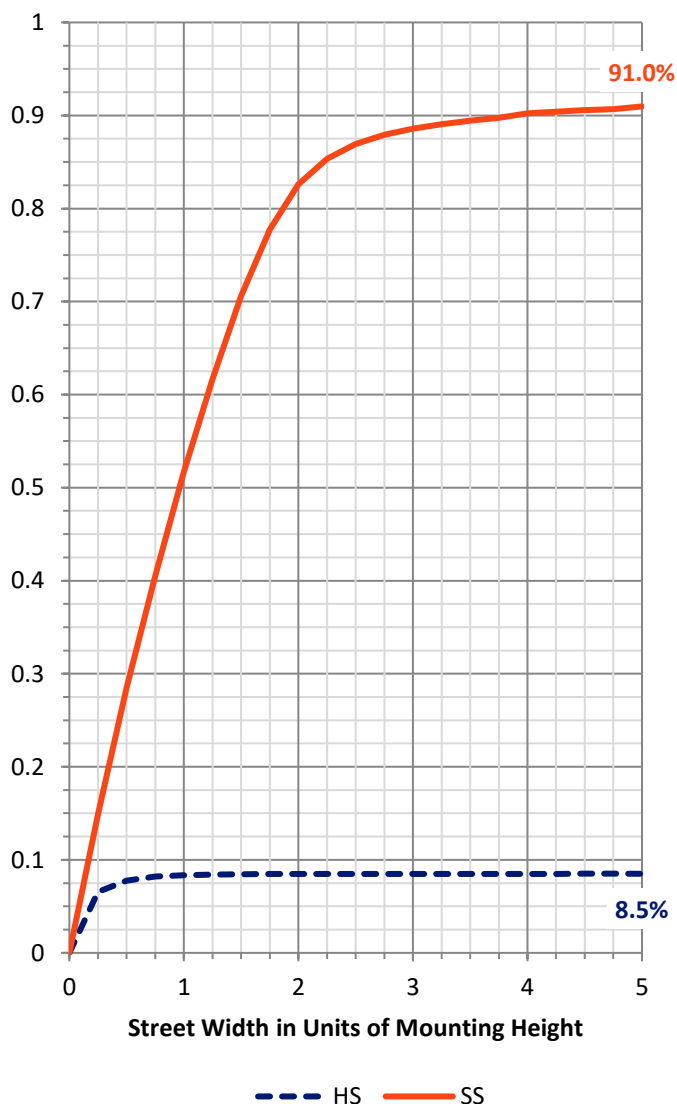
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	436.6	0.0	436.6
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	4665.4	0.0	4665.4
	% Fixture	91.4	0.0	91.4
Total	Lumens	5102.0	0.0	5102.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.2	2.4
10°-20°	258.7	5.1
20°-30°	340.0	6.7
30°-40°	450.4	8.8
40°-50°	673.1	13.2
50°-60°	1078.3	21.1
60°-70°	1359.2	26.6
70°-80°	733.2	14.4
80°-90°	85.8	1.7
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°	5102.0	100.0
0°-180°	5102.0	100.0

Coefficient of Utilization

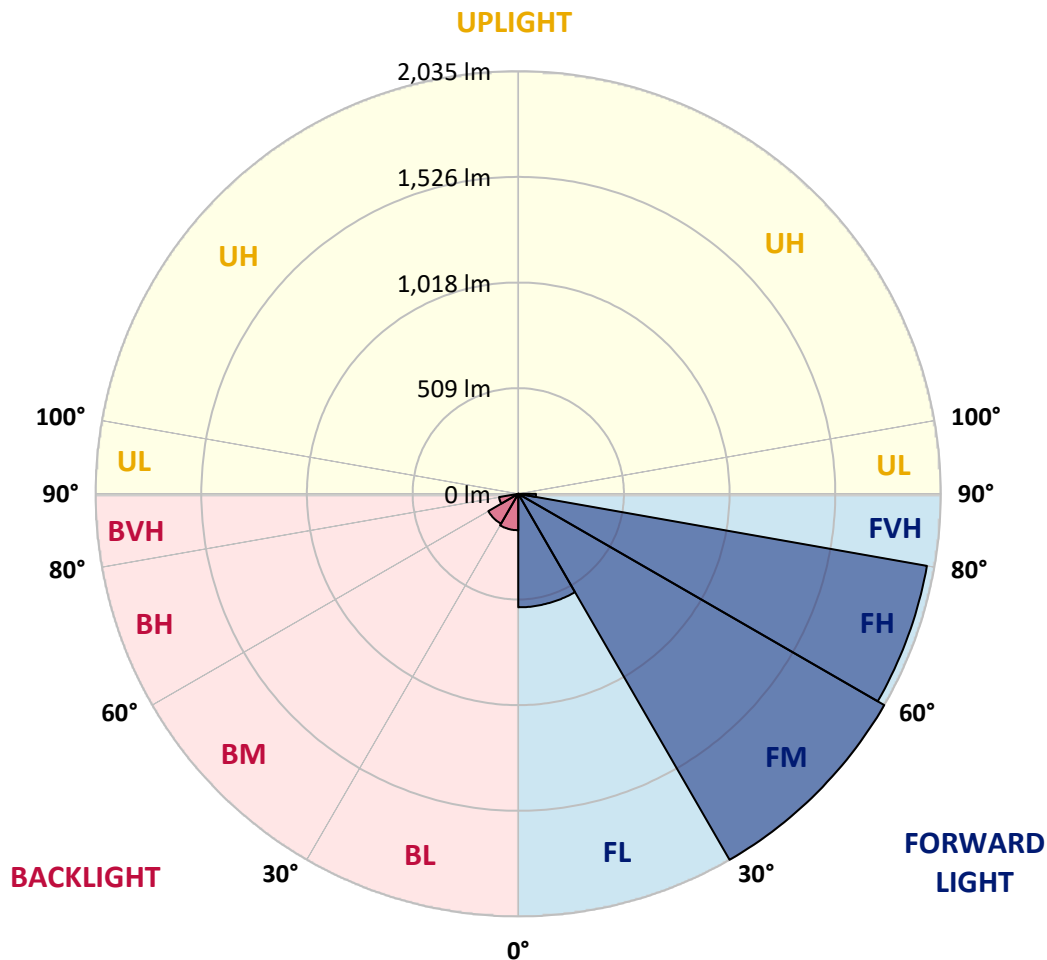


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	546.5	10.7			
FM (30°-60°)	2035.3	39.9			
FH (60°-80°)	1998.5	39.2			G2/5000
FVH (80°-90°)	85.1	1.7			G1/100
BL (0°-30°)	175.4	3.4	B1/500		
BM (30°-60°)	166.6	3.3	B0/220		
BH (60°-80°)	93.9	1.8	B0/110		G0/110
BVH (80°-90°)	0.7	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-G2
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1507.1	1507.1	1507.1	1507.1	1507.1	1507.1	1507.1	1507.1	1507.1	1507.1	1507.1
2.5°	1632.1	1628.0	1626.5	1624.0	1614.2	1604.7	1585.8	1580.5	1568.6	1540.4	1510.5
5°	1633.3	1633.1	1637.6	1636.5	1633.1	1628.7	1615.1	1608.1	1587.9	1547.6	1492.9
7.5°	1554.6	1558.7	1568.6	1576.7	1586.0	1598.1	1599.8	1593.0	1576.5	1533.0	1460.4
10°	1449.0	1455.3	1469.3	1485.3	1509.7	1533.8	1555.5	1554.6	1548.9	1506.0	1421.4
12.5°	1343.1	1350.5	1366.7	1390.2	1424.8	1464.3	1502.9	1508.2	1517.7	1481.9	1385.3
15°	1250.4	1256.8	1272.7	1301.5	1344.4	1397.4	1454.1	1463.8	1488.4	1463.0	1355.2
17.5°	1171.7	1175.7	1187.4	1219.4	1269.1	1333.4	1407.0	1426.1	1462.8	1448.1	1329.1
20°	1116.8	1117.4	1125.0	1147.5	1197.2	1269.1	1358.2	1385.5	1435.6	1435.4	1302.2
22.5°	1089.6	1087.5	1089.0	1101.9	1138.4	1207.8	1309.4	1341.8	1411.2	1424.6	1274.8
25°	1084.5	1082.8	1078.6	1080.3	1102.3	1154.1	1260.2	1297.7	1389.8	1418.0	1251.0
27.5°	1100.4	1102.1	1094.9	1087.3	1089.0	1119.3	1216.5	1260.0	1372.4	1418.0	1234.3
30°	1132.5	1133.3	1128.0	1118.0	1104.7	1109.5	1186.1	1229.6	1363.7	1427.8	1223.7
32.5°	1167.9	1172.5	1171.9	1163.8	1144.8	1125.0	1178.9	1218.6	1363.1	1449.4	1222.6
35°	1211.8	1217.1	1226.0	1224.3	1204.4	1171.9	1203.5	1234.7	1375.6	1485.0	1234.1
37.5°	1258.5	1266.5	1285.6	1294.7	1281.8	1245.1	1258.7	1281.0	1409.1	1542.7	1263.1
40°	1303.7	1312.8	1347.6	1383.4	1373.7	1335.9	1342.3	1360.1	1468.7	1625.7	1318.3
42.5°	1348.0	1361.6	1412.7	1471.7	1483.3	1453.2	1456.6	1470.8	1557.2	1739.8	1408.5
45°	1401.0	1416.3	1492.0	1564.8	1596.0	1582.8	1597.3	1606.6	1672.8	1890.7	1530.0
47.5°	1478.9	1496.5	1589.4	1672.4	1727.1	1735.6	1764.7	1770.8	1819.0	2066.3	1688.5
50°	1630.8	1635.7	1719.7	1795.0	1873.9	1924.8	1957.9	1962.6	1995.9	2258.3	1886.4
52.5°	1821.9	1825.1	1872.6	1923.1	2012.9	2116.8	2194.3	2200.8	2207.8	2445.4	2081.8
55°	2011.8	2011.4	2042.8	2072.5	2175.2	2326.2	2494.2	2498.3	2448.0	2623.0	2231.2
57.5°	2130.4	2141.9	2189.6	2227.8	2371.2	2564.9	2798.0	2812.9	2700.2	2754.5	2378.8
60°	2092.6	2098.2	2204.0	2345.3	2615.4	2904.1	3105.4	3109.3	2889.9	2885.9	2565.5
62.5°	1782.9	1785.9	1952.2	2243.5	2739.1	3344.1	3476.3	3414.1	3108.0	3068.1	2788.9
65°	1222.0	1241.3	1380.2	1740.3	2511.8	3620.1	4050.3	3947.5	3440.4	3330.7	2990.9
67.5°	719.6	715.6	784.3	1049.5	1844.8	3436.8	4776.5	4674.3	3893.8	3506.6	2931.7
70°	491.5	488.8	515.1	635.4	1041.4	2666.1	5005.0	5211.4	4294.1	3388.2	2523.1
72.5°	350.9	352.4	391.2	493.7	653.8	1553.4	4304.1	4792.7	4168.7	2953.8	1917.8
75°	238.2	242.3	297.9	405.0	573.2	790.3	3054.3	3643.2	3394.6	2146.7	1102.3
77.5°	128.1	132.6	198.1	326.3	518.3	549.0	1964.7	2507.4	2132.3	965.1	319.5
80°	53.5	56.0	92.7	237.2	447.8	482.2	1156.0	1520.5	908.6	190.3	71.3
82.5°	23.1	24.4	38.6	141.5	334.8	407.1	612.0	731.5	275.4	41.8	35.9
85°	4.5	4.7	15.9	74.9	213.6	229.8	396.7	388.9	123.7	18.0	26.1
87.5°	0.0	0.0	3.8	23.5	62.8	125.2	242.1	239.1	42.0	8.7	9.8
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°	1507.1	1507.1	1507.1	1507.1	1507.1	1507.1	1507.1	1507.1	1507.1	1507.1	1507.1
2.5°	1495.2	1480.6	1449.8	1411.9	1382.8	1350.8	1325.3	1293.0	1279.0	1279.7	1272.0
5°	1461.7	1431.6	1363.5	1277.6	1211.4	1143.1	1084.3	1025.7	991.2	979.9	969.3
7.5°	1413.8	1366.0	1257.4	1125.0	1013.0	903.5	808.3	724.5	671.5	645.6	636.0
10°	1359.7	1292.6	1135.4	961.0	801.1	653.0	529.5	422.2	379.3	350.3	342.8
12.5°	1312.1	1221.3	1016.2	792.8	602.9	424.3	306.6	239.7	210.7	199.2	197.3
15°	1267.4	1154.7	901.4	640.5	417.5	261.2	195.0	172.3	165.5	163.6	163.6
17.5°	1225.2	1091.3	789.2	490.5	276.2	183.1	161.4	156.4	154.2	154.0	154.2
20°	1181.0	1027.9	678.9	359.4	192.8	155.1	149.1	146.4	145.7	145.7	145.7
22.5°	1138.8	964.4	571.5	256.7	154.7	141.5	138.5	136.6	136.0	135.8	135.4
25°	1098.3	904.2	466.7	181.4	135.8	129.6	127.1	124.5	122.6	121.6	120.9
27.5°	1065.0	850.5	369.1	145.5	122.6	117.3	114.1	110.3	105.7	103.5	102.7
30°	1038.5	801.5	284.5	122.8	110.3	105.0	100.1	93.6	86.8	83.2	83.0
32.5°	1017.7	753.3	216.0	108.6	99.3	92.7	85.7	77.4	69.6	65.6	65.3
35°	1007.5	710.9	165.1	98.2	89.5	81.3	72.6	63.4	55.8	52.0	51.6
37.5°	1014.3	675.1	128.8	89.5	81.3	71.7	61.5	52.0	45.2	41.8	41.6
40°	1039.1	652.1	104.6	82.1	74.3	62.6	51.6	42.6	36.9	34.2	33.9
42.5°	1091.9	643.7	89.3	75.9	67.5	54.1	42.9	35.2	29.9	28.0	27.6
45°	1180.2	656.2	78.9	70.0	60.5	46.0	35.4	28.9	24.2	22.7	22.5
47.5°	1297.7	689.1	71.5	64.3	54.1	38.8	29.5	23.3	19.7	18.2	18.0
50°	1449.2	741.2	65.3	58.6	48.2	32.9	24.4	18.5	15.3	14.2	14.2
52.5°	1614.0	803.4	59.8	53.2	42.2	27.4	19.7	14.2	12.1	10.8	10.8
55°	1750.2	857.7	53.9	49.2	35.0	22.7	15.1	10.8	8.9	8.3	8.3
57.5°	1886.2	915.6	47.1	42.2	28.0	18.5	11.5	8.1	6.6	6.2	6.2
60°	2062.5	986.5	40.5	34.4	22.1	14.0	8.5	5.7	4.9	4.7	4.7
62.5°	2256.4	1028.1	34.6	27.6	17.2	10.4	6.2	3.8	3.6	3.6	3.4
65°	2375.0	969.3	29.1	22.1	13.4	7.8	4.0	2.8	3.2	3.0	2.5
67.5°	2223.7	758.9	23.8	17.2	10.4	5.9	2.5	1.9	3.4	2.8	2.1
70°	1841.2	531.2	18.5	12.1	8.3	5.1	1.7	1.3	3.6	2.8	1.7
72.5°	1377.9	355.6	14.6	8.1	6.2	4.5	1.5	0.6	3.2	2.3	1.5
75°	752.9	143.2	11.7	5.1	3.8	3.2	1.1	0.4	2.1	1.7	1.1
77.5°	198.1	37.8	8.5	3.4	2.1	1.3	0.6	0.2	1.1	0.8	0.4
80°	50.5	14.6	5.5	2.3	1.5	0.6	0.0	0.0	0.2	0.0	0.0
82.5°	26.9	6.2	3.4	1.7	0.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	20.4	4.0	1.9	1.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.8	1.3	0.6	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)