

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: P382746

Luminaire Tested: **GLEON-SA1B-735-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382746
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-SA1B-735-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 800mA 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: 4762.1 lumens
Efficiency: N/A
Efficacy: 108.2 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

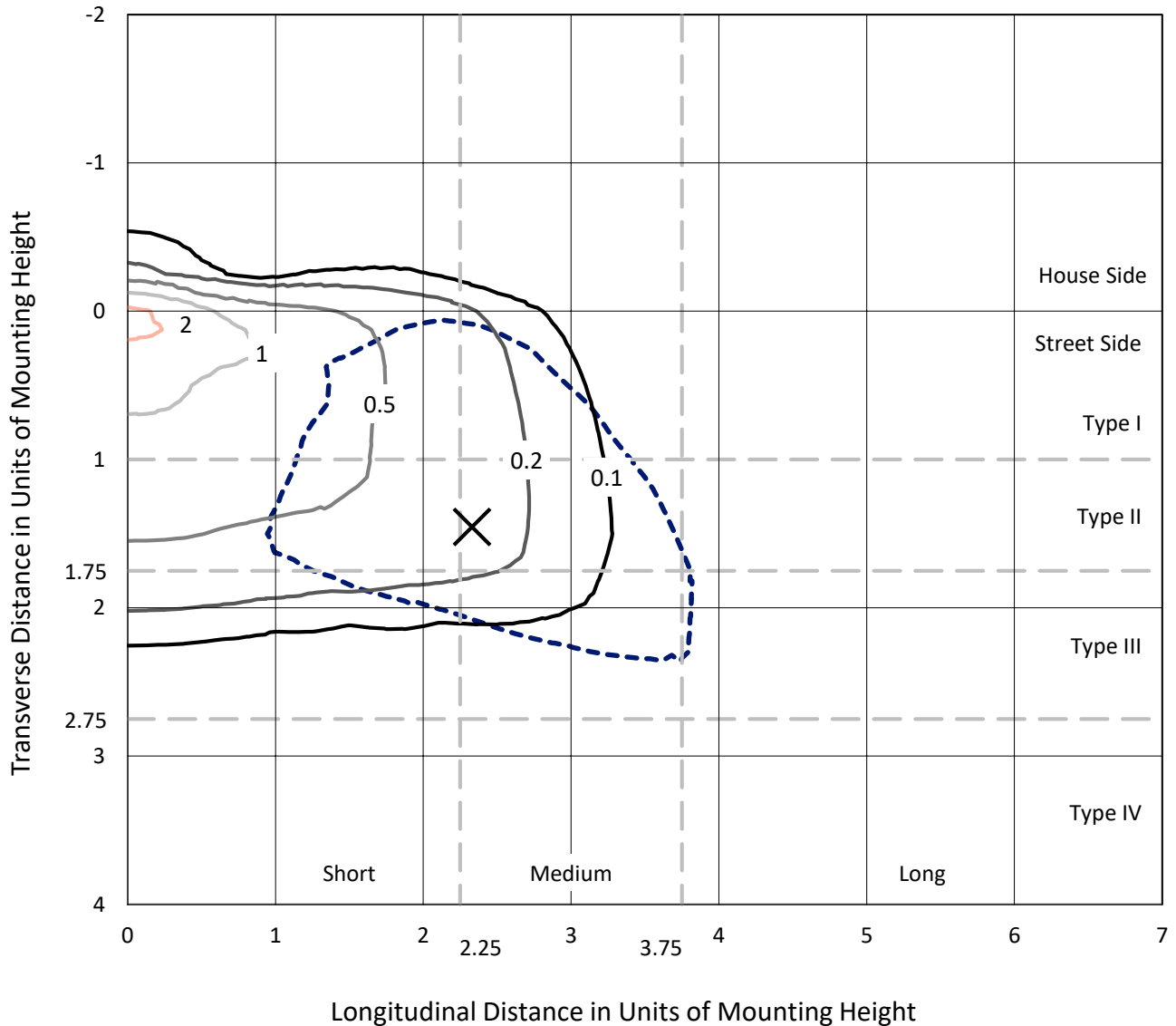
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

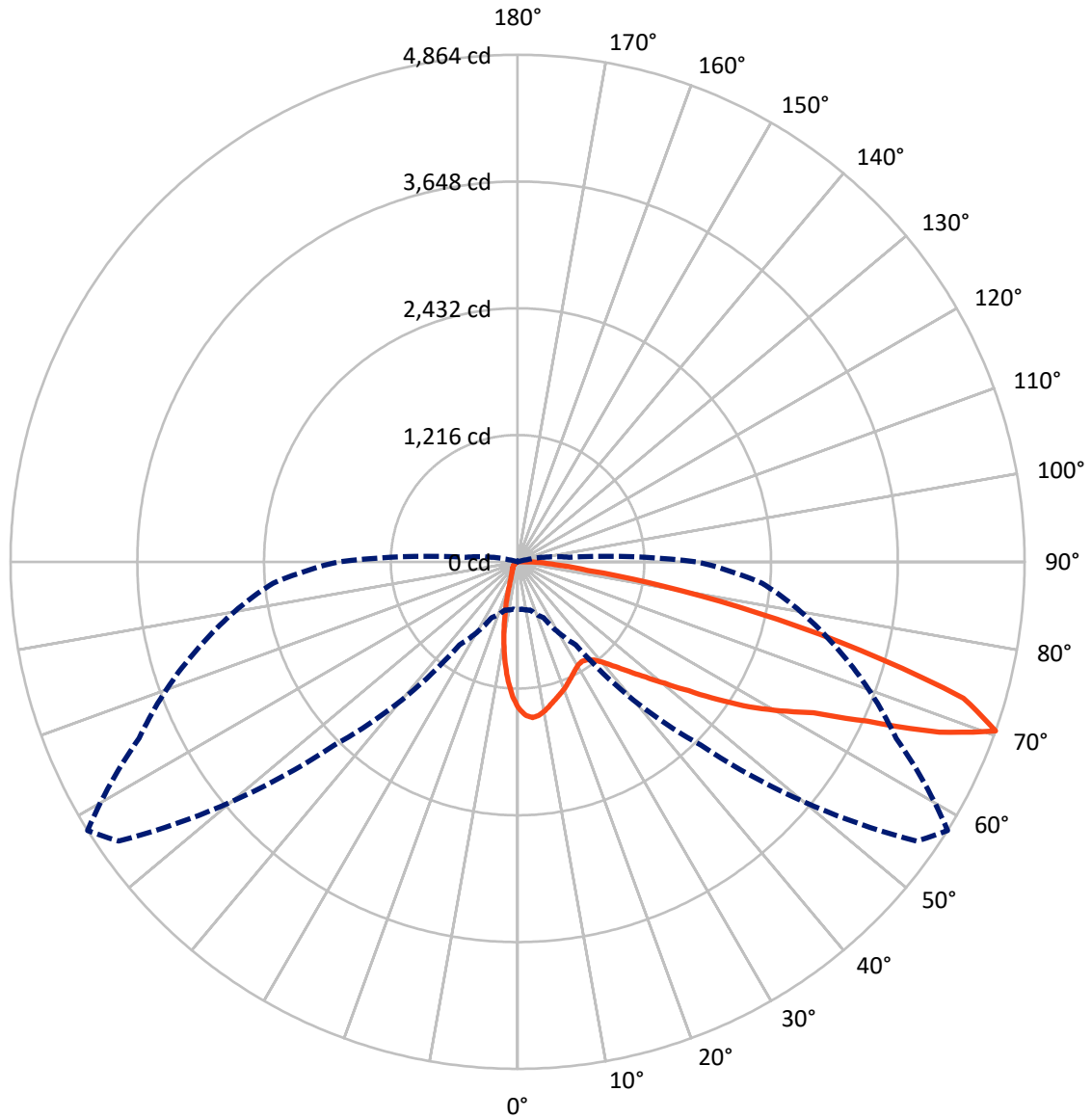
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 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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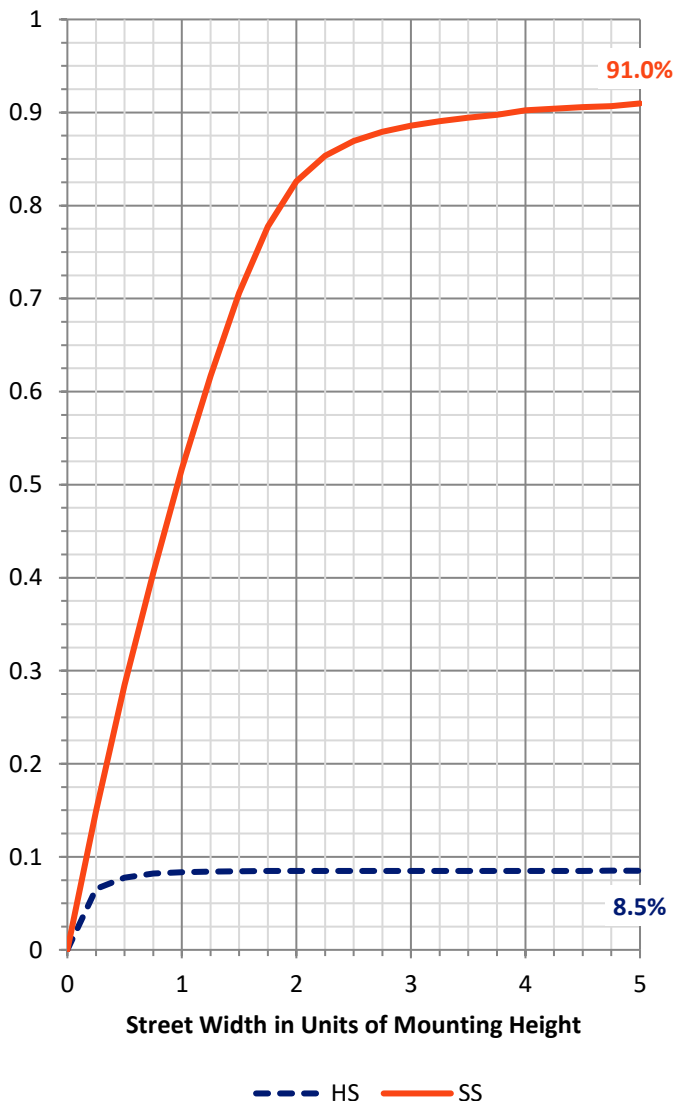
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	407.5	0.0	407.5
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	4354.5	0.0	4354.5
	% Fixture	91.4	0.0	91.4
Total	Lumens	4762.1	0.0	4762.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.0	2.4
10°-20°	241.4	5.1
20°-30°	317.4	6.7
30°-40°	420.3	8.8
40°-50°	628.3	13.2
50°-60°	1006.5	21.1
60°-70°	1268.7	26.6
70°-80°	684.3	14.4
80°-90°	80.1	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°	4762.1	100.0
0°-180°	4762.1	100.0

Coefficient of Utilization

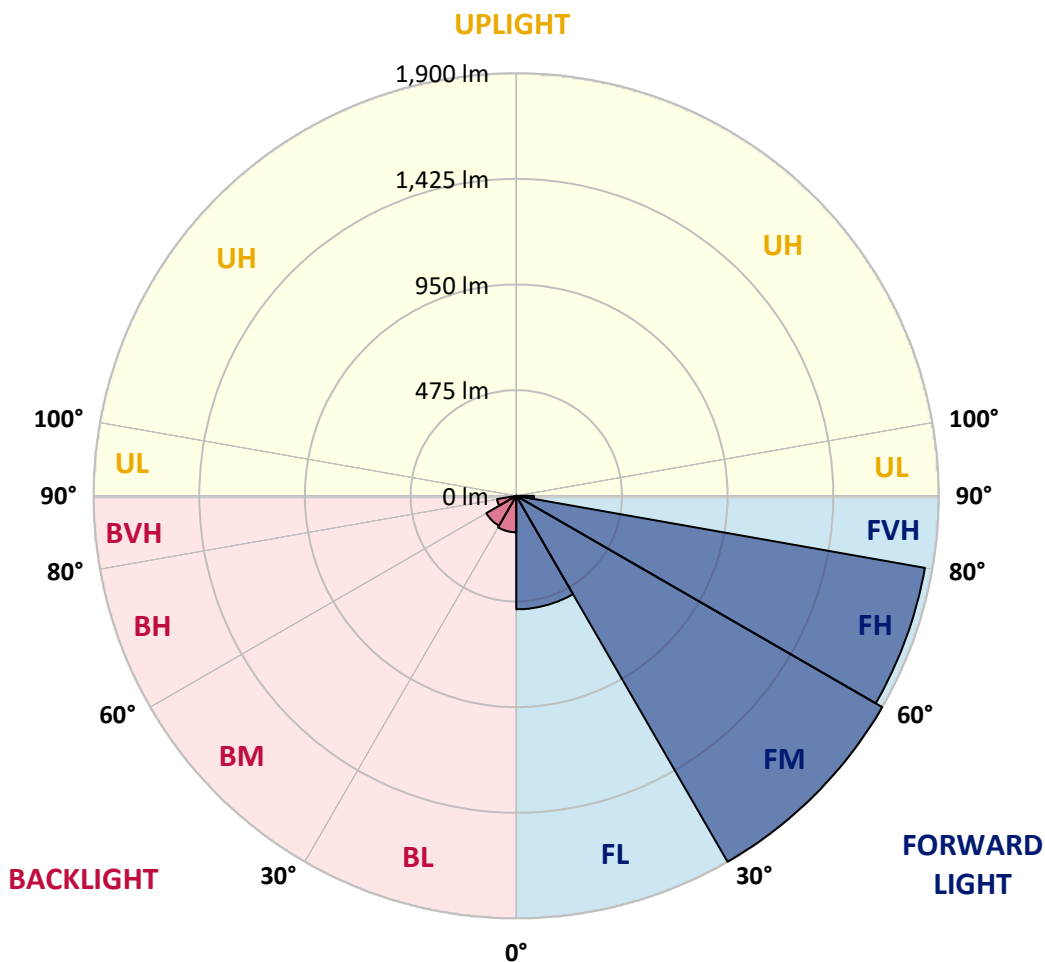


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	510.1	10.7			
FM (30°-60°)	1899.7	39.9			
FH (60°-80°)	1865.4	39.2			G2/5000
FVH (80°-90°)	79.4	1.7			G1/100
BL (0°-30°)	163.7	3.4	B1/500		
BM (30°-60°)	155.5	3.3	B0/220		
BH (60°-80°)	87.6	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°	1406.7	1406.7	1406.7	1406.7	1406.7	1406.7	1406.7	1406.7	1406.7	1406.7	1406.7
2.5°	1523.4	1519.5	1518.1	1515.8	1506.7	1497.7	1480.1	1475.2	1464.1	1437.8	1409.9
5°	1524.5	1524.3	1528.5	1527.5	1524.3	1520.2	1507.5	1500.9	1482.1	1444.6	1393.4
7.5°	1451.1	1454.8	1464.1	1471.7	1480.3	1491.7	1493.3	1486.8	1471.5	1430.9	1363.1
10°	1352.4	1358.4	1371.4	1386.3	1409.1	1431.6	1451.8	1451.1	1445.7	1405.7	1326.7
12.5°	1253.6	1260.6	1275.6	1297.6	1329.9	1366.7	1402.7	1407.7	1416.6	1383.2	1293.0
15°	1167.1	1173.0	1187.9	1214.8	1254.8	1304.4	1357.2	1366.3	1389.3	1365.5	1264.9
17.5°	1093.6	1097.4	1108.3	1138.2	1184.6	1244.5	1313.2	1331.1	1365.3	1351.7	1240.5
20°	1042.3	1043.0	1050.0	1071.1	1117.4	1184.6	1267.6	1293.3	1339.9	1339.8	1215.4
22.5°	1017.0	1015.0	1016.4	1028.5	1062.5	1127.3	1222.2	1252.5	1317.2	1329.7	1189.9
25°	1012.2	1010.6	1006.7	1008.3	1028.9	1077.2	1176.2	1211.3	1297.2	1323.5	1167.7
27.5°	1027.1	1028.7	1021.9	1014.8	1016.4	1044.7	1135.4	1176.0	1281.0	1323.5	1152.0
30°	1057.0	1057.8	1052.8	1043.5	1031.0	1035.6	1107.1	1147.7	1272.9	1332.7	1142.2
32.5°	1090.1	1094.4	1093.8	1086.3	1068.5	1050.0	1100.3	1137.4	1272.2	1352.8	1141.1
35°	1131.1	1136.0	1144.3	1142.7	1124.1	1093.8	1123.4	1152.4	1284.0	1386.1	1151.9
37.5°	1174.6	1182.1	1199.9	1208.5	1196.4	1162.1	1174.8	1195.6	1315.3	1440.0	1179.0
40°	1216.8	1225.4	1257.8	1291.2	1282.2	1246.9	1252.8	1269.5	1370.9	1517.4	1230.5
42.5°	1258.1	1270.8	1318.6	1373.7	1384.6	1356.4	1359.6	1372.8	1453.4	1623.9	1314.6
45°	1307.7	1322.0	1392.7	1460.6	1489.6	1477.3	1490.8	1499.6	1561.4	1764.7	1428.1
47.5°	1380.4	1396.8	1483.5	1560.9	1612.0	1620.0	1647.1	1652.8	1697.7	1928.7	1576.0
50°	1522.1	1526.7	1605.1	1675.4	1749.1	1796.6	1827.5	1831.8	1862.9	2107.9	1760.7
52.5°	1700.5	1703.5	1747.9	1795.0	1878.7	1975.8	2048.1	2054.2	2060.8	2282.5	1943.1
55°	1877.8	1877.3	1906.7	1934.4	2030.2	2171.3	2328.0	2331.8	2284.9	2448.3	2082.5
57.5°	1988.5	1999.2	2043.7	2079.3	2213.2	2394.0	2611.6	2625.5	2520.3	2571.0	2220.3
60°	1953.2	1958.4	2057.1	2189.0	2441.1	2710.6	2898.5	2902.1	2697.4	2693.6	2394.5
62.5°	1664.1	1666.9	1822.1	2094.0	2556.5	3121.3	3244.7	3186.6	2900.9	2863.7	2603.1
65°	1140.6	1158.6	1288.2	1624.3	2344.5	3378.9	3780.5	3684.5	3211.2	3108.9	2791.6
67.5°	671.6	667.9	732.1	979.6	1722.0	3207.9	4458.3	4362.8	3634.3	3273.0	2736.3
70°	458.8	456.2	480.8	593.0	972.1	2488.4	4671.5	4864.3	4008.0	3162.5	2355.0
72.5°	327.5	328.9	365.2	460.7	610.3	1449.9	4017.3	4473.4	3891.0	2756.9	1790.1
75°	222.4	226.1	278.0	378.0	535.1	737.6	2850.8	3400.5	3168.4	2003.7	1028.9
77.5°	119.6	123.8	184.9	304.5	483.8	512.4	1833.8	2340.3	1990.3	900.8	298.2
80°	49.9	52.3	86.5	221.3	418.0	450.1	1079.0	1419.2	848.1	177.6	66.5
82.5°	21.6	22.7	36.1	132.1	312.4	380.0	571.2	682.7	257.0	39.0	33.4
85°	4.2	4.4	14.8	69.9	199.4	214.4	370.3	362.9	115.4	16.9	24.3
87.5°	0.0	0.0	3.5	22.0	58.6	116.8	225.9	223.2	39.2	8.1	9.1
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°	1406.7	1406.7	1406.7	1406.7	1406.7	1406.7	1406.7	1406.7	1406.7	1406.7	1406.7
2.5°	1395.6	1382.0	1353.3	1317.8	1290.7	1260.8	1237.0	1206.9	1193.9	1194.4	1187.3
5°	1364.3	1336.2	1272.7	1192.5	1130.6	1066.9	1012.0	957.4	925.1	914.6	904.7
7.5°	1319.5	1275.0	1173.7	1050.0	945.5	843.3	754.5	676.2	626.7	602.5	593.7
10°	1269.0	1206.5	1059.7	897.0	747.7	609.5	494.3	394.0	354.1	326.9	320.0
12.5°	1224.7	1139.9	948.5	740.0	562.7	396.0	286.2	223.8	196.6	185.9	184.2
15°	1183.0	1077.8	841.4	597.8	389.7	243.8	181.9	160.8	154.5	152.7	152.7
17.5°	1143.6	1018.6	736.6	457.8	257.9	170.8	150.7	146.0	143.9	143.7	143.9
20°	1102.3	959.4	633.6	335.5	180.0	144.8	139.2	136.7	136.0	136.0	136.0
22.5°	1062.9	900.2	533.4	239.6	144.4	132.1	129.3	127.5	127.0	126.7	126.3
25°	1025.1	844.0	435.6	169.3	126.7	121.0	118.6	116.3	114.5	113.5	112.9
27.5°	994.1	793.9	344.6	135.8	114.5	109.5	106.6	102.9	98.7	96.6	95.9
30°	969.3	748.1	265.5	114.7	102.9	98.0	93.4	87.3	81.0	77.6	77.4
32.5°	949.9	703.1	201.6	101.4	92.7	86.5	80.0	72.3	64.9	61.2	61.0
35°	940.4	663.5	154.1	91.7	83.6	75.8	67.7	59.2	52.1	48.5	48.2
37.5°	946.7	630.1	120.2	83.6	75.8	66.9	57.4	48.5	42.2	39.0	38.8
40°	969.8	608.7	97.6	76.7	69.3	58.4	48.2	39.8	34.5	31.9	31.7
42.5°	1019.2	600.8	83.4	70.9	63.0	50.5	40.0	32.9	27.9	26.2	25.7
45°	1101.6	612.5	73.7	65.3	56.5	42.9	33.1	26.9	22.5	21.1	21.0
47.5°	1211.3	643.1	66.7	60.0	50.5	36.2	27.5	21.8	18.4	17.0	16.9
50°	1352.6	691.9	61.0	54.7	45.0	30.6	22.7	17.2	14.3	13.2	13.2
52.5°	1506.5	749.9	55.8	49.7	39.4	25.5	18.4	13.2	11.3	10.1	10.1
55°	1633.7	800.6	50.3	45.9	32.7	21.1	14.1	10.1	8.3	7.7	7.7
57.5°	1760.5	854.6	44.0	39.4	26.2	17.2	10.7	7.5	6.1	5.8	5.8
60°	1925.1	920.7	37.8	32.0	20.6	13.0	7.9	5.3	4.6	4.4	4.4
62.5°	2106.0	959.6	32.2	25.7	16.0	9.7	5.8	3.5	3.4	3.4	3.2
65°	2216.8	904.7	27.1	20.6	12.5	7.4	3.7	2.6	3.0	2.8	2.4
67.5°	2075.6	708.3	22.2	16.0	9.7	5.6	2.4	1.8	3.2	2.6	2.0
70°	1718.6	495.9	17.2	11.3	7.7	4.8	1.6	1.2	3.4	2.6	1.6
72.5°	1286.1	331.9	13.7	7.5	5.8	4.2	1.4	0.6	3.0	2.1	1.4
75°	702.8	133.7	10.9	4.8	3.5	3.0	1.0	0.4	2.0	1.6	1.0
77.5°	184.9	35.2	7.9	3.2	2.0	1.2	0.6	0.2	1.0	0.8	0.4
80°	47.1	13.7	5.1	2.1	1.4	0.6	0.0	0.0	0.2	0.0	0.0
82.5°	25.2	5.8	3.2	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	19.0	3.7	1.8	1.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.4	1.2	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)