

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: P526335

Luminaire Tested: **GALN-SA1B-735-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526335
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-SA1B-735-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 800mA 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: 3137 lumens
Efficiency: N/A
Efficacy: 71.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

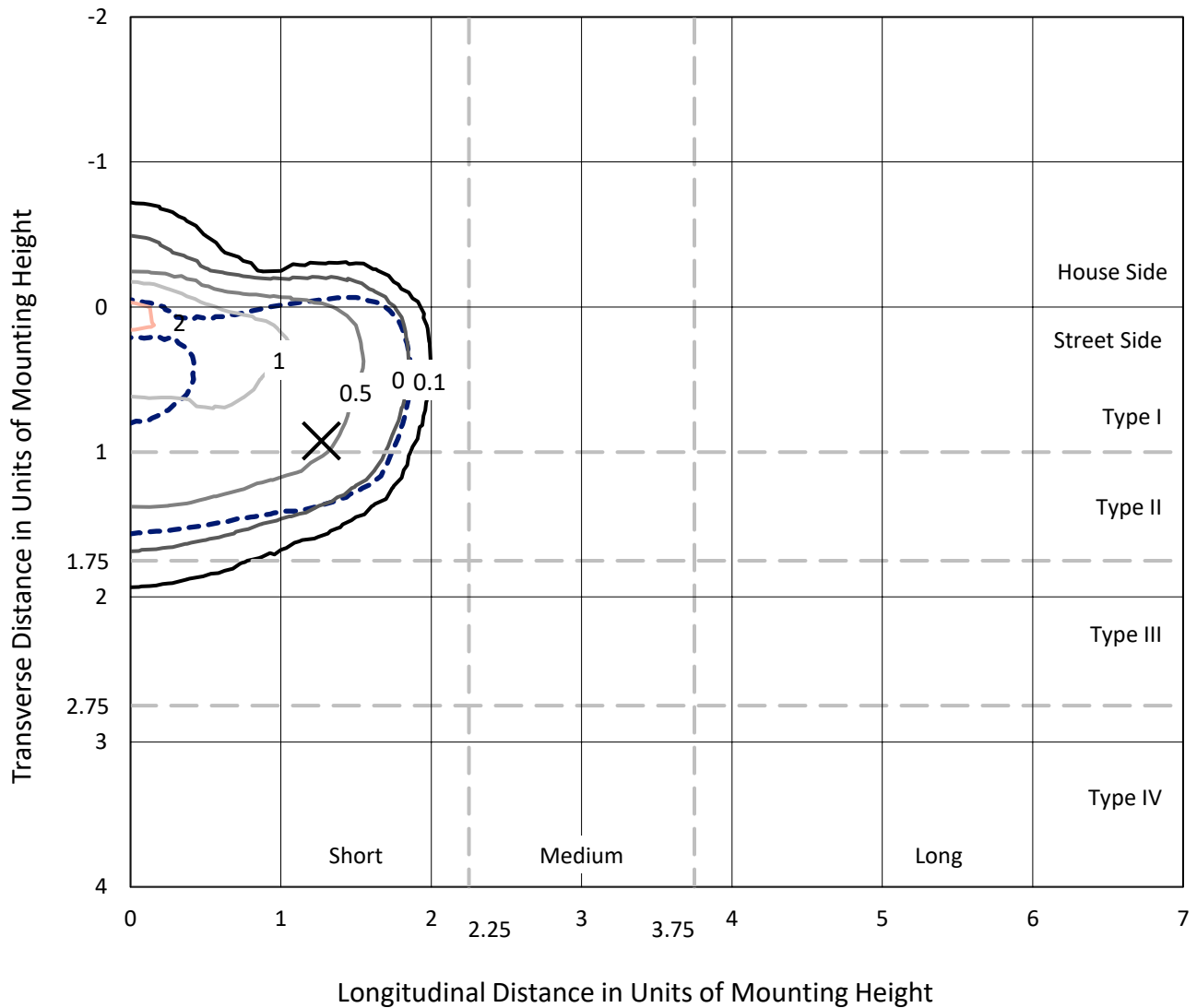
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

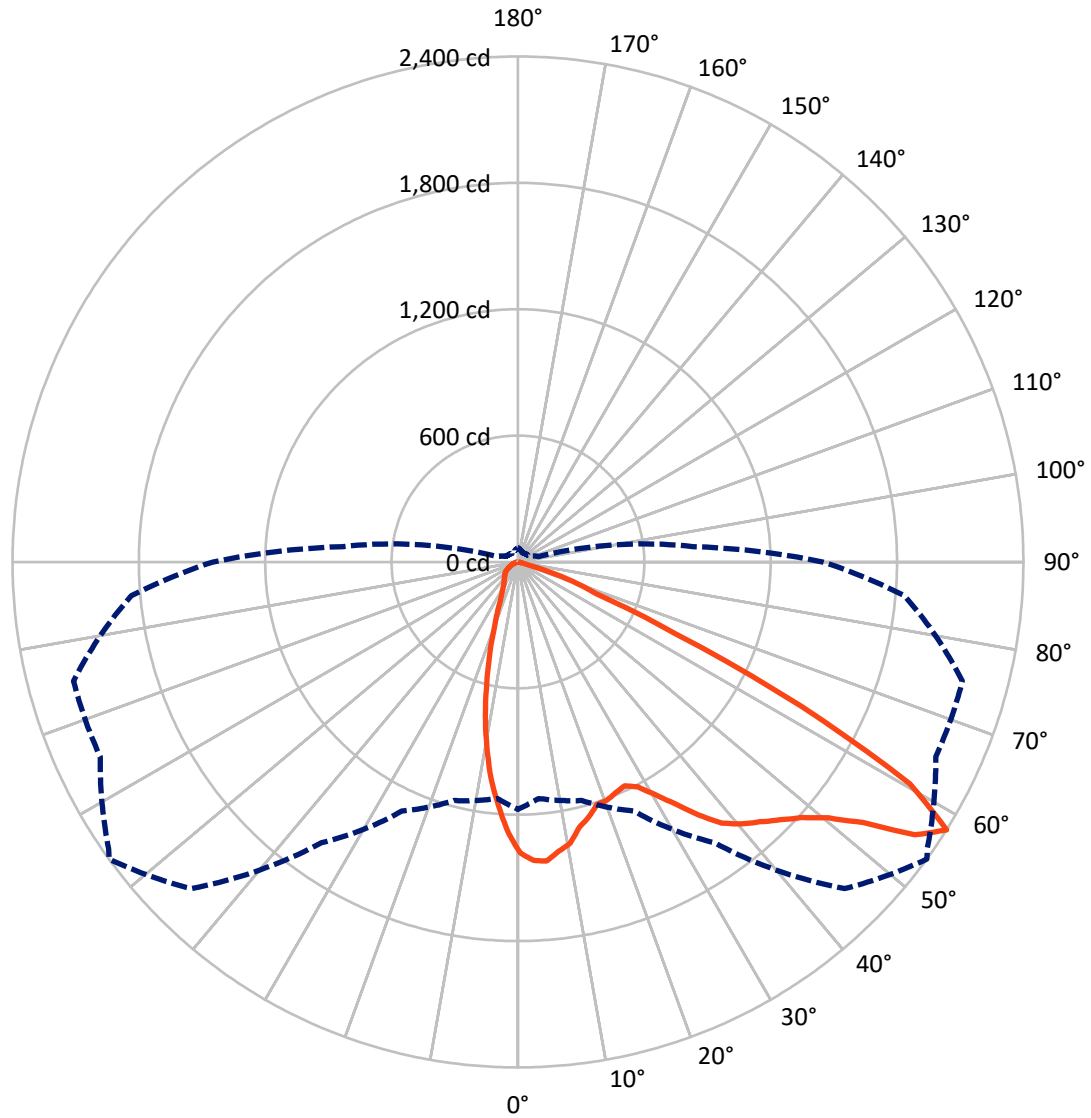
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 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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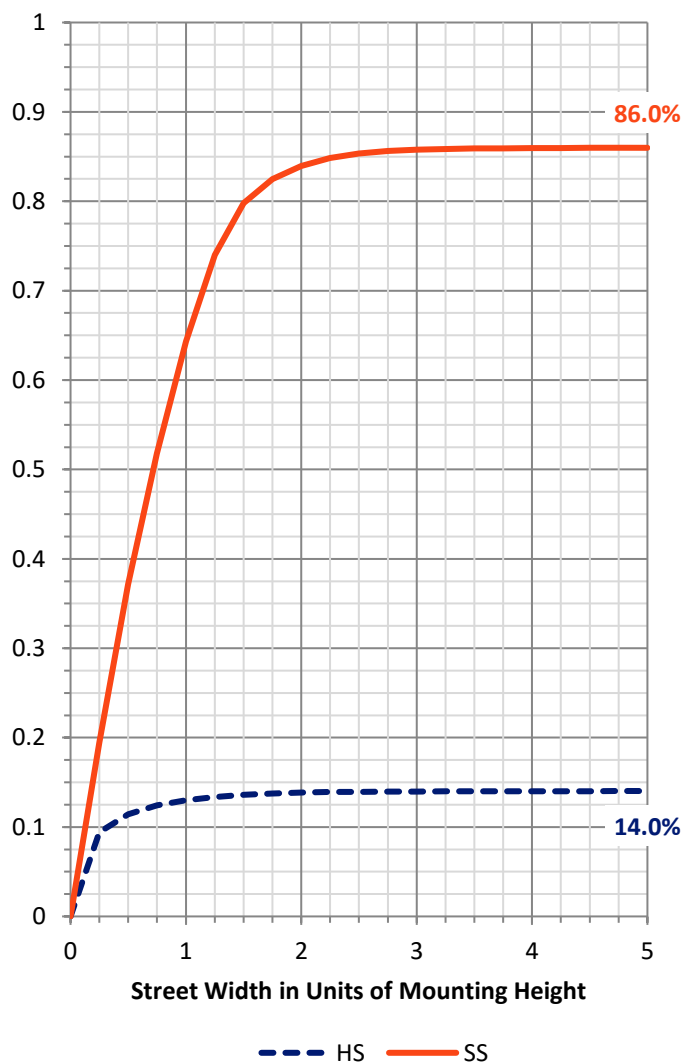
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	443.3	0.0	443.3
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	2693.7	0.0	2693.7
	% Fixture	85.9	0.0	85.9
Total	Lumens	3137.0	0.0	3137.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.6	3.7
10°-20°	246.9	7.9
20°-30°	327.2	10.4
30°-40°	475.5	15.2
40°-50°	705.1	22.5
50°-60°	881.7	28.1
60°-70°	347.8	11.1
70°-80°	34.6	1.1
80°-90°	2.7	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°	3137.0	100.0
0°-180°	3137.0	100.0

Coefficient of Utilization



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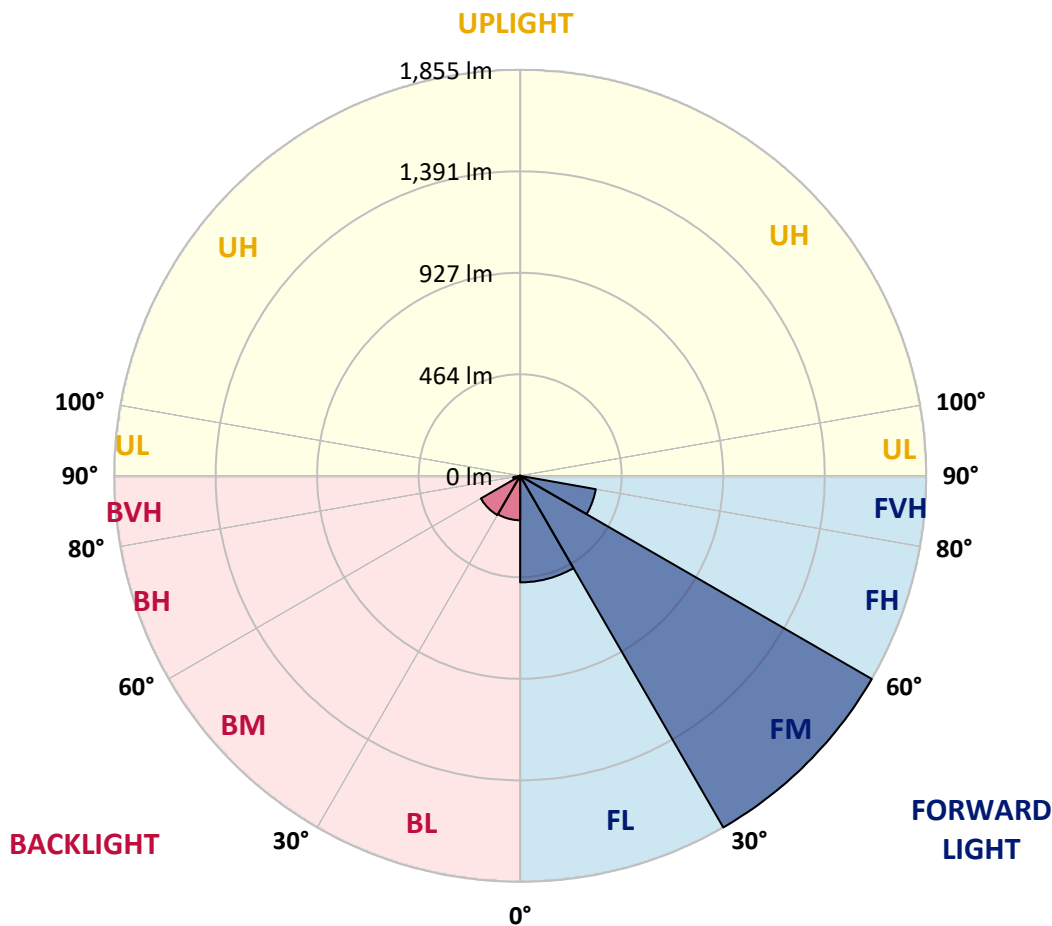
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	487.0	15.5			
FM (30°-60°)	1854.9	59.1			
FH (60°-80°)	350.6	11.2			G0/660
FVH (80°-90°)	1.2	0.0			G0/10
BL (0°-30°)	202.7	6.5	B1/500		
BM (30°-60°)	207.3	6.6	B0/220		
BH (60°-80°)	31.8	1.0	B0/110		G0/110
BVH (80°-90°)	1.5	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°	1381.9	1381.9	1381.9	1381.9	1381.9	1381.9	1381.9	1381.9	1381.9	1381.9	1381.9
2.5°	1462.4	1447.2	1448.4	1443.1	1436.1	1441.4	1418.6	1423.9	1423.3	1392.4	1372.0
5°	1425.6	1442.0	1425.1	1439.1	1425.6	1440.2	1426.2	1415.7	1398.8	1376.1	1338.1
7.5°	1363.2	1347.5	1352.1	1369.6	1372.6	1405.2	1387.7	1401.1	1394.1	1349.2	1297.3
10°	1237.8	1234.3	1257.6	1281.0	1309.6	1344.6	1358.0	1350.4	1345.1	1328.2	1258.8
12.5°	1141.6	1151.5	1150.9	1189.4	1237.8	1257.6	1292.6	1291.5	1320.6	1289.1	1222.6
15°	1050.0	1055.2	1079.7	1103.6	1157.3	1213.9	1257.1	1262.9	1297.9	1275.7	1194.6
17.5°	994.0	986.4	1005.6	1034.2	1089.1	1163.1	1211.0	1225.0	1272.8	1268.1	1162.6
20°	938.6	938.6	954.3	988.1	1038.3	1121.7	1206.9	1202.8	1272.8	1259.4	1128.1
22.5°	919.9	929.2	933.3	959.0	1018.5	1090.2	1189.4	1197.0	1282.7	1255.3	1113.0
25°	945.6	933.3	934.5	954.9	1010.9	1075.1	1176.6	1193.5	1300.8	1275.7	1100.7
27.5°	949.6	961.9	965.4	979.4	1016.7	1079.7	1208.6	1243.1	1345.7	1323.6	1104.2
30°	985.2	997.5	996.9	1020.8	1046.5	1117.6	1280.4	1287.4	1438.5	1383.6	1125.8
32.5°	1028.4	1041.2	1045.3	1073.3	1093.7	1187.1	1367.9	1386.0	1527.7	1478.1	1182.4
35°	1082.1	1077.4	1096.1	1124.1	1167.8	1288.6	1474.6	1505.0	1624.0	1600.6	1240.7
37.5°	1149.1	1143.3	1161.4	1206.9	1266.4	1408.7	1573.2	1593.1	1694.0	1714.4	1348.6
40°	1196.4	1198.7	1253.6	1314.8	1377.8	1523.1	1635.6	1654.9	1743.0	1820.5	1430.3
42.5°	1275.1	1289.7	1355.6	1430.3	1496.2	1608.8	1686.4	1705.1	1765.7	1905.7	1540.6
45°	1389.5	1383.1	1456.0	1539.4	1612.3	1698.1	1746.5	1740.1	1779.1	1990.3	1610.0
47.5°	1536.5	1537.6	1586.1	1657.2	1733.1	1775.6	1813.5	1790.8	1807.1	2079.5	1702.7
50°	1636.8	1645.6	1684.6	1757.6	1795.5	1860.8	1909.2	1895.2	1890.0	2133.2	1761.1
52.5°	1662.5	1688.7	1709.7	1800.7	1889.4	1992.6	2054.5	2084.2	1990.9	2151.3	1835.1
55°	1468.8	1492.1	1566.2	1691.1	1925.0	2201.5	2286.6	2287.2	2122.7	2231.8	1887.0
57.5°	1174.2	1127.0	1172.5	1304.9	1627.5	2192.7	2399.8	2372.4	2188.6	2184.5	1842.1
60°	812.0	800.3	803.2	855.7	1126.4	1744.1	2138.5	2174.0	2015.4	1893.5	1458.3
62.5°	643.4	633.5	620.7	614.8	699.4	1086.7	1508.5	1558.6	1409.3	1227.9	864.5
65°	504.0	498.2	499.9	523.2	522.7	616.6	824.8	804.4	644.0	476.0	271.8
67.5°	340.1	348.8	355.8	426.4	462.6	429.3	398.4	386.7	209.4	88.1	60.1
70°	191.3	192.5	200.1	266.6	351.2	333.1	274.7	274.7	104.4	32.1	34.4
72.5°	104.4	100.9	93.9	114.9	156.3	158.7	122.5	106.7	30.9	21.0	19.2
75°	50.7	50.2	43.2	35.6	33.8	28.0	21.6	19.8	14.0	13.4	11.7
77.5°	10.5	9.9	5.2	5.2	5.8	6.4	8.2	8.2	9.9	9.9	8.2
80°	0.0	0.0	0.6	2.3	4.1	5.8	7.0	7.0	8.2	8.2	6.4
82.5°	0.0	0.0	0.6	1.7	3.5	5.2	6.4	7.0	8.2	8.7	7.0
85°	0.0	0.0	0.0	1.2	2.9	4.1	3.5	3.5	2.9	2.3	1.2
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°	1381.9	1381.9	1381.9	1381.9	1381.9	1381.9	1381.9	1381.9	1381.9	1381.9	1381.9
2.5°	1361.5	1360.3	1333.5	1318.3	1290.9	1267.0	1247.7	1233.7	1233.7	1225.0	1216.8
5°	1323.0	1313.1	1255.9	1219.1	1167.2	1128.7	1102.5	1082.1	1050.0	1058.7	1024.3
7.5°	1275.1	1250.1	1174.2	1118.2	1046.5	991.6	935.6	886.1	838.2	816.7	828.3
10°	1223.8	1180.1	1078.0	989.3	900.1	799.7	734.4	655.1	606.1	603.2	590.3
12.5°	1169.6	1120.0	995.7	873.2	756.0	635.2	535.5	461.4	428.2	391.4	398.4
15°	1128.7	1055.2	904.1	756.6	600.8	478.9	378.6	321.4	289.9	281.2	278.2
17.5°	1084.4	1005.6	810.8	632.3	471.3	344.7	272.4	245.0	232.7	232.7	231.0
20°	1038.3	949.6	718.1	516.8	353.5	257.2	218.2	209.4	208.8	208.2	208.2
22.5°	1008.0	885.5	634.1	410.7	266.6	205.9	189.6	186.1	188.4	195.4	195.4
25°	975.9	823.7	541.3	316.7	206.5	176.7	167.4	169.7	175.6	182.0	179.7
27.5°	943.2	783.4	453.8	248.5	169.2	154.6	151.1	156.3	162.7	168.6	166.8
30°	935.6	740.2	371.0	188.4	145.2	134.7	137.1	141.7	148.2	150.5	152.8
32.5°	947.3	706.4	303.9	154.6	126.6	123.7	123.7	126.0	130.1	135.3	133.6
35°	980.6	687.2	240.3	134.2	116.1	113.2	112.6	114.9	117.2	119.0	117.2
37.5°	1031.3	672.0	196.6	119.0	109.1	104.4	103.2	102.7	105.0	105.6	106.7
40°	1096.1	680.2	166.8	109.7	102.1	96.8	93.3	93.3	93.3	95.1	95.7
42.5°	1166.1	691.2	144.1	104.4	95.7	89.2	85.7	84.6	85.7	88.1	87.5
45°	1239.6	712.8	129.5	96.2	89.8	81.7	77.0	75.8	78.7	83.4	82.8
47.5°	1308.4	743.7	118.4	91.0	84.0	76.4	70.6	69.4	74.7	81.1	81.7
50°	1377.2	797.4	114.3	86.9	79.9	71.2	65.9	64.7	70.6	78.7	80.5
52.5°	1456.6	855.2	111.4	81.7	75.2	67.1	61.2	60.1	66.5	77.0	77.6
55°	1508.5	904.1	109.1	72.3	66.5	60.7	56.0	55.4	62.4	71.7	74.1
57.5°	1447.8	835.9	100.9	63.0	56.6	53.7	49.6	49.6	55.4	64.2	65.9
60°	1097.8	550.1	71.7	50.7	47.8	46.1	44.3	44.3	49.0	55.4	56.0
62.5°	642.8	296.3	46.1	40.8	40.8	39.1	36.2	36.2	40.8	44.3	44.9
65°	190.7	95.1	37.3	35.0	34.4	31.5	28.6	28.0	31.5	33.2	32.7
67.5°	54.8	43.7	30.9	29.2	28.6	23.9	22.2	21.6	22.2	21.0	20.4
70°	32.7	29.7	23.9	24.5	21.6	17.5	15.7	15.2	14.0	12.2	11.1
72.5°	18.1	18.1	17.5	18.7	15.2	11.7	9.9	8.2	6.4	5.2	4.7
75°	11.1	11.7	12.2	12.8	9.9	7.6	6.4	4.1	2.3	1.2	1.2
77.5°	7.6	8.2	8.7	9.3	8.2	7.0	5.2	2.9	0.6	0.0	0.0
80°	5.8	6.4	7.6	8.2	8.7	9.3	7.0	2.9	0.6	0.0	0.0
82.5°	6.4	7.0	8.7	8.2	8.2	8.2	6.4	2.9	0.6	0.0	0.0
85°	1.2	1.7	2.9	2.9	4.1	5.2	4.1	1.2	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)