

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: P450807

Luminaire Tested: **GALN-SA1C-827-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450807
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1C-827-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 1050mA 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: 4326 lumens
Efficiency: N/A
Efficacy: 75.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

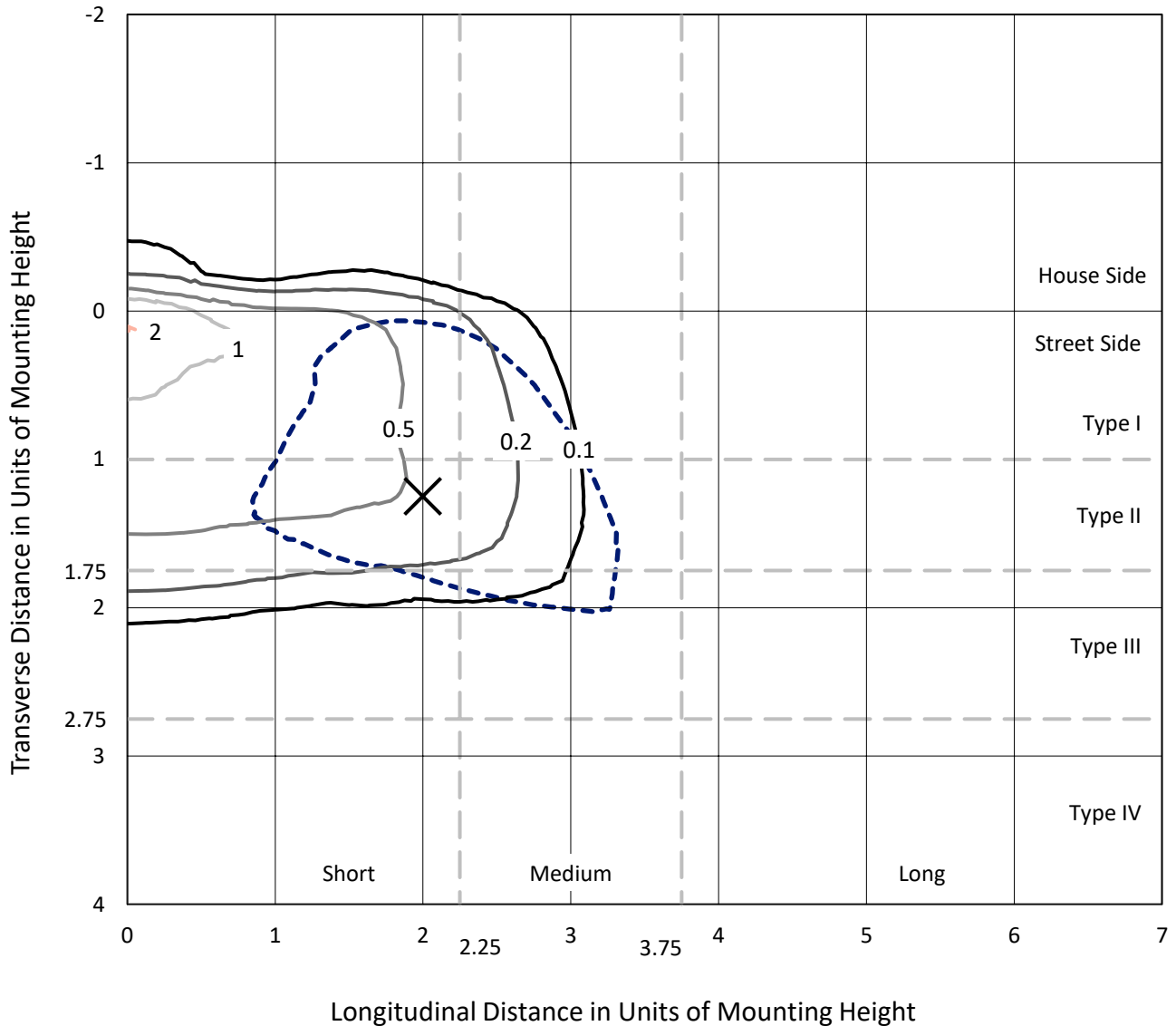
Input Watts (W): 57
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

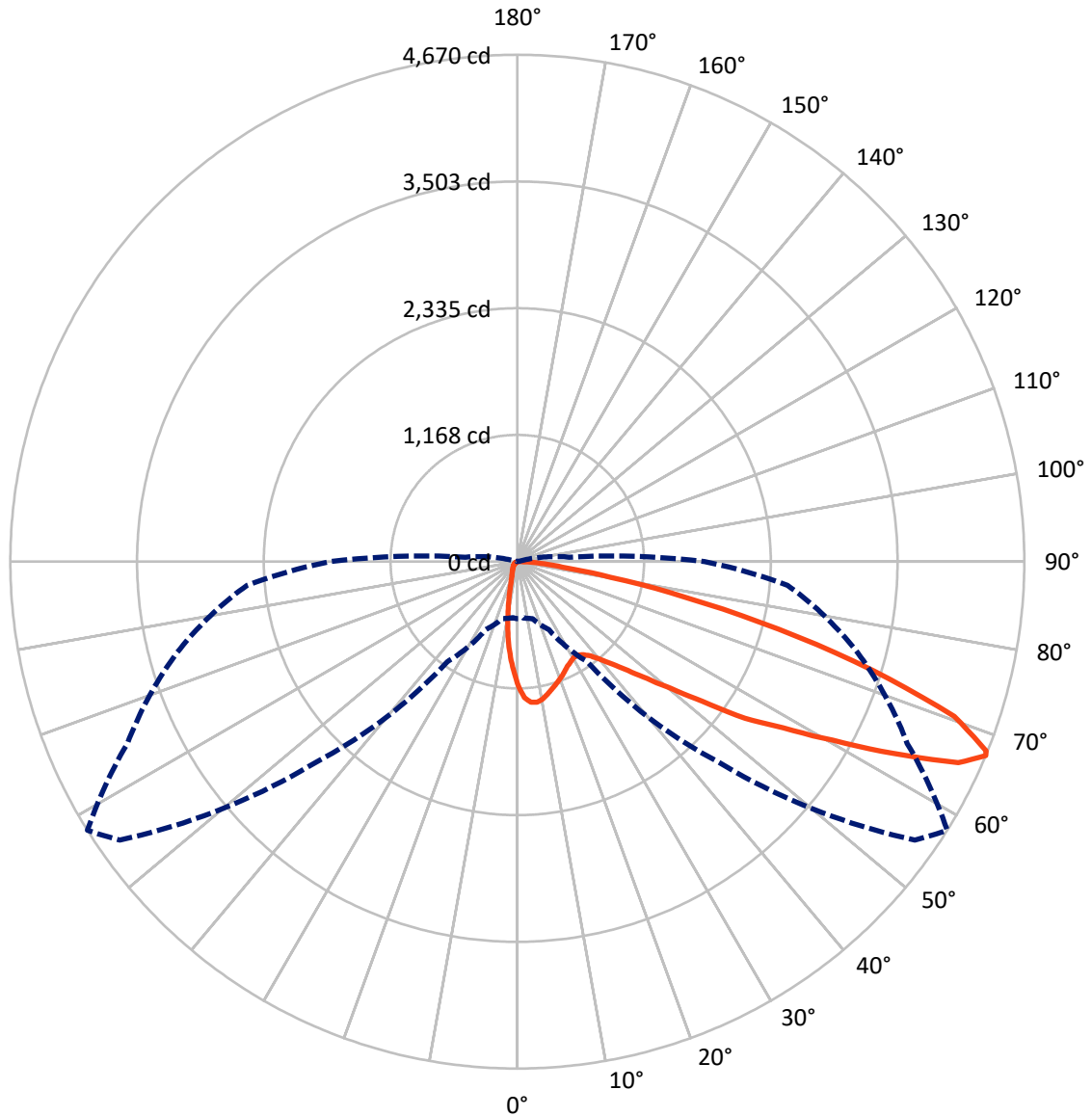
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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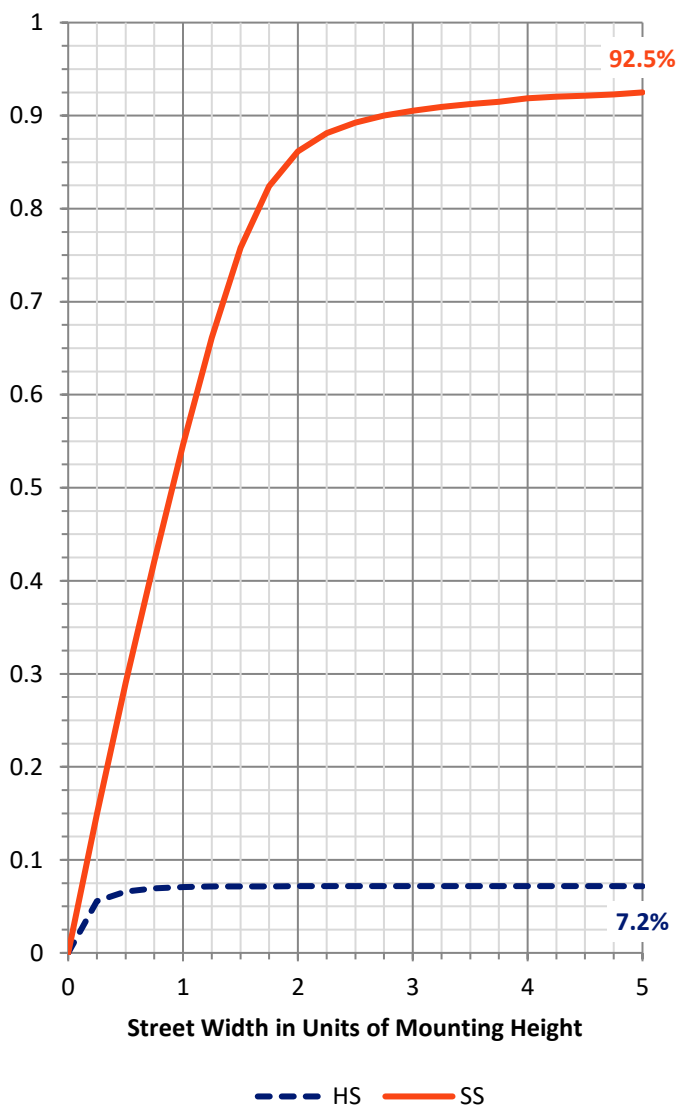
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	312.2	0.0	312.2
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	4013.8	0.0	4013.8
	% Fixture	92.8	0.0	92.8
Total	Lumens	4326.0	0.0	4326.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.1	2.2
10°-20°	201.0	4.6
20°-30°	272.3	6.3
30°-40°	377.7	8.7
40°-50°	602.4	13.9
50°-60°	1041.4	24.1
60°-70°	1189.6	27.5
70°-80°	495.9	11.5
80°-90°	52.6	1.2
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°	4326.0	100.0
0°-180°	4326.0	100.0

Coefficient of Utilization

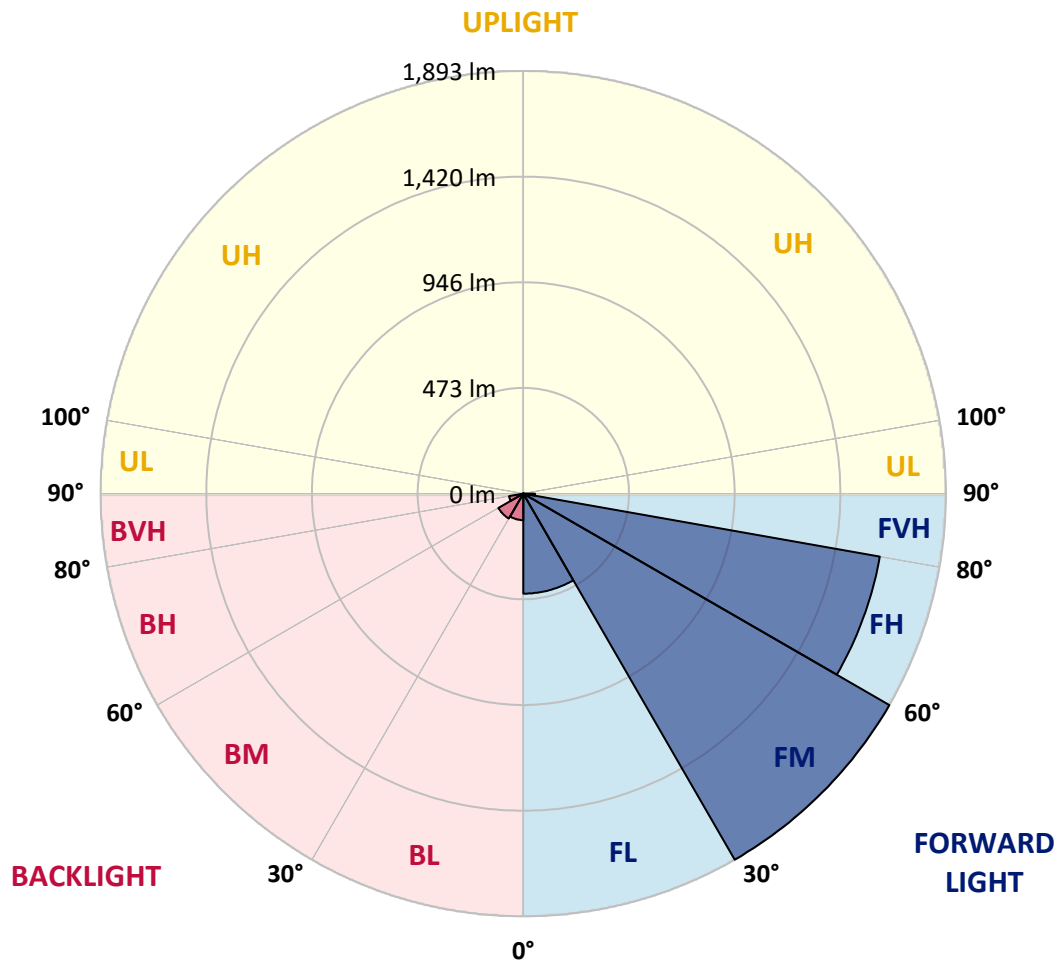


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	447.8	10.4			
FM (30°-60°)	1892.8	43.8			
FH (60°-80°)	1621.0	37.5			G1/1800
FVH (80°-90°)	52.2	1.2			G1/100
BL (0°-30°)	118.5	2.7	B1/500		
BM (30°-60°)	128.7	3.0	B0/220		
BH (60°-80°)	64.5	1.5	B0/110		G0/110
BVH (80°-90°)	0.4	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-G1
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1146.8	1146.8	1146.8	1146.8	1146.8	1146.8	1146.8	1146.8	1146.8	1146.8	1146.8
2.5°	1330.9	1333.0	1325.4	1319.4	1303.8	1287.0	1264.7	1252.9	1232.6	1197.7	1158.9
5°	1362.1	1364.7	1363.6	1362.1	1356.1	1339.9	1311.6	1301.2	1271.4	1214.4	1144.5
7.5°	1292.8	1302.3	1303.5	1314.7	1325.4	1326.9	1316.2	1308.4	1280.9	1214.1	1118.7
10°	1200.8	1207.2	1216.5	1229.5	1255.2	1276.6	1287.0	1285.8	1269.9	1205.2	1088.7
12.5°	1108.0	1111.5	1125.7	1147.9	1179.4	1215.9	1243.6	1249.1	1249.4	1194.5	1063.5
15°	1028.3	1026.8	1037.8	1063.5	1107.8	1153.4	1203.2	1211.8	1225.7	1184.1	1040.1
17.5°	960.0	967.6	969.3	997.6	1038.4	1097.6	1160.9	1176.3	1204.0	1175.1	1020.7
20°	917.8	921.9	925.6	941.5	978.2	1040.7	1121.3	1142.4	1183.8	1167.0	999.1
22.5°	905.4	908.0	904.8	909.7	935.8	991.3	1078.3	1106.3	1164.4	1159.5	981.4
25°	914.9	917.5	910.0	904.2	913.2	951.1	1036.6	1070.8	1148.8	1158.1	968.1
27.5°	938.1	943.0	932.6	922.2	917.0	929.4	1004.0	1043.6	1138.1	1165.0	962.1
30°	974.2	977.1	969.3	956.6	944.7	932.3	986.9	1024.8	1135.2	1181.2	961.5
32.5°	1013.5	1019.6	1015.3	1006.9	991.5	962.1	991.8	1025.4	1142.2	1204.6	968.7
35°	1062.1	1069.0	1073.1	1071.3	1051.7	1015.0	1023.1	1051.4	1160.7	1247.7	988.4
37.5°	1109.8	1115.9	1138.7	1146.5	1129.1	1094.5	1083.8	1102.6	1201.4	1304.0	1023.9
40°	1164.4	1172.5	1204.6	1234.4	1226.0	1189.6	1169.9	1185.5	1263.9	1389.0	1091.3
42.5°	1216.7	1231.2	1280.0	1332.7	1340.5	1299.7	1286.7	1291.9	1356.4	1511.3	1185.2
45°	1291.0	1304.6	1367.6	1439.0	1475.8	1444.0	1430.7	1429.8	1483.3	1683.3	1337.6
47.5°	1398.3	1410.4	1484.7	1555.3	1620.6	1624.9	1599.8	1608.4	1642.8	1884.5	1524.3
50°	1529.8	1558.4	1607.3	1680.7	1768.0	1838.6	1846.4	1834.8	1864.3	2117.5	1748.6
52.5°	1720.9	1731.9	1776.7	1837.1	1939.4	2059.1	2151.9	2136.0	2126.8	2339.5	1975.3
55°	1863.4	1878.2	1947.8	2030.8	2180.8	2338.7	2539.9	2545.4	2428.6	2552.9	2197.0
57.5°	1820.3	1842.9	1948.4	2115.2	2445.0	2733.5	2883.3	2887.0	2707.8	2760.1	2447.4
60°	1599.2	1609.9	1761.1	1983.7	2467.6	3161.4	3370.4	3340.0	2992.0	2992.0	2668.5
62.5°	1134.1	1150.8	1273.4	1600.9	2228.5	3310.0	3953.8	3891.0	3383.4	3213.7	2800.3
65°	724.7	708.5	789.8	1010.6	1660.2	3090.6	4461.7	4465.4	3751.7	3302.5	2728.3
67°	525.0	518.6	542.0	690.9	1125.7	2598.0	4472.4	4670.4	3963.3	3246.4	2498.2
67.5°	480.2	485.1	502.1	623.3	1022.8	2364.1	4423.8	4658.2	4011.0	3212.6	2415.0
70°	364.0	355.6	374.1	440.8	613.1	1491.4	3805.5	4272.3	3951.7	2876.9	1929.6
72.5°	267.7	266.8	292.5	360.5	472.1	794.4	2856.7	3425.6	3228.5	2190.7	1215.0
75°	180.7	188.8	229.8	301.2	427.8	515.1	1947.5	2485.2	2241.2	1243.9	496.6
77.5°	102.9	103.5	148.0	242.0	384.2	414.5	1154.0	1583.3	1186.4	413.7	147.4
80°	44.5	48.9	73.4	175.8	318.6	367.1	661.7	870.1	479.9	87.6	47.7
82.5°	16.5	19.4	32.4	108.1	232.4	302.4	399.8	415.4	162.8	30.9	29.8
85°	0.0	0.6	11.9	50.6	121.1	135.0	267.1	246.3	72.0	14.7	19.4
87.5°	0.0	0.0	0.0	5.2	15.9	50.3	83.0	92.5	17.3	5.2	4.6
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°	1146.8	1146.8	1146.8	1146.8	1146.8	1146.8	1146.8	1146.8	1146.8	1146.8	1146.8
2.5°	1138.1	1119.3	1072.2	1025.1	990.1	960.9	917.0	893.0	880.3	861.5	862.6
5°	1109.5	1071.3	988.4	902.5	833.1	765.5	684.5	651.9	624.4	608.8	598.4
7.5°	1067.0	1010.6	887.8	773.3	666.6	548.4	459.6	400.4	360.5	345.7	331.6
10°	1020.5	945.6	785.7	627.0	479.0	357.0	281.9	227.5	208.1	190.2	191.9
12.5°	977.4	886.3	692.1	494.9	335.6	226.9	176.9	154.7	148.3	146.3	146.3
15°	942.1	829.7	591.5	372.0	230.1	163.0	141.6	135.6	133.3	132.7	132.7
17.5°	904.5	775.9	500.7	274.9	167.4	136.4	129.2	125.2	124.3	123.7	123.7
20°	871.0	721.8	414.5	204.7	135.3	122.9	118.2	115.6	114.8	114.2	114.5
22.5°	839.2	673.8	333.6	154.7	119.1	111.9	107.2	104.6	102.9	101.5	101.8
25°	810.9	627.6	268.3	126.6	107.2	100.9	96.3	92.5	88.7	87.0	86.7
27.5°	790.9	587.1	209.0	108.4	96.6	89.6	83.8	79.2	74.3	71.7	71.1
30°	774.4	546.1	165.4	95.7	85.9	79.2	72.0	65.3	60.1	57.5	56.4
32.5°	763.8	507.0	130.4	85.3	76.9	68.8	60.7	54.1	48.3	45.7	45.1
35°	762.0	474.4	106.7	76.6	68.8	60.1	51.7	44.5	39.6	37.0	36.4
37.5°	774.4	449.2	89.3	69.7	62.2	52.6	43.4	36.7	32.4	30.4	30.1
40°	807.7	433.3	77.5	63.9	56.1	45.7	37.0	31.2	26.9	24.9	24.9
42.5°	871.0	433.9	69.7	58.4	50.0	39.0	31.5	26.0	22.3	20.5	19.9
45°	969.9	453.6	63.0	52.9	44.2	33.8	26.9	21.4	17.6	16.2	16.2
47.5°	1102.3	492.6	57.2	47.4	39.0	28.9	22.8	17.3	14.2	12.7	12.7
50°	1275.4	555.3	52.3	42.8	34.7	24.9	18.5	14.2	11.0	9.8	9.5
52.5°	1456.4	632.8	46.5	38.7	29.8	21.1	15.0	11.0	8.4	7.5	7.2
55°	1656.1	708.5	41.0	34.7	24.3	17.6	11.9	8.7	6.1	5.2	5.2
57.5°	1857.6	782.8	34.4	28.9	19.1	13.0	9.3	6.4	4.0	3.2	3.2
60°	2028.2	806.8	29.2	23.4	14.5	9.3	6.6	4.0	2.3	1.4	1.4
62.5°	2051.6	725.9	24.6	17.9	10.4	6.4	3.5	2.3	0.9	0.6	0.6
65°	1924.4	589.7	20.5	13.6	6.9	3.2	1.4	0.9	0.3	0.0	0.0
67°	1724.4	478.1	16.8	10.1	4.9	2.0	0.9	0.3	0.0	0.0	0.0
67.5°	1673.2	455.9	16.2	9.5	4.3	1.7	0.6	0.3	0.0	0.0	0.0
70°	1313.0	341.4	11.6	5.8	2.6	1.2	0.0	0.0	0.0	0.0	0.0
72.5°	816.1	193.1	8.4	3.5	1.7	0.6	0.0	0.0	0.0	0.0	0.0
75°	308.4	67.6	5.8	2.3	1.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	96.0	25.7	3.5	1.7	0.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	32.4	9.8	2.3	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	19.9	4.0	1.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.4	1.7	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.3	0.6	0.3	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)