

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: P526749

Luminaire Tested: **GALN-SA1D-727-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526749
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1D-727-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3821 lumens
Efficiency: N/A
Efficacy: 58.8 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

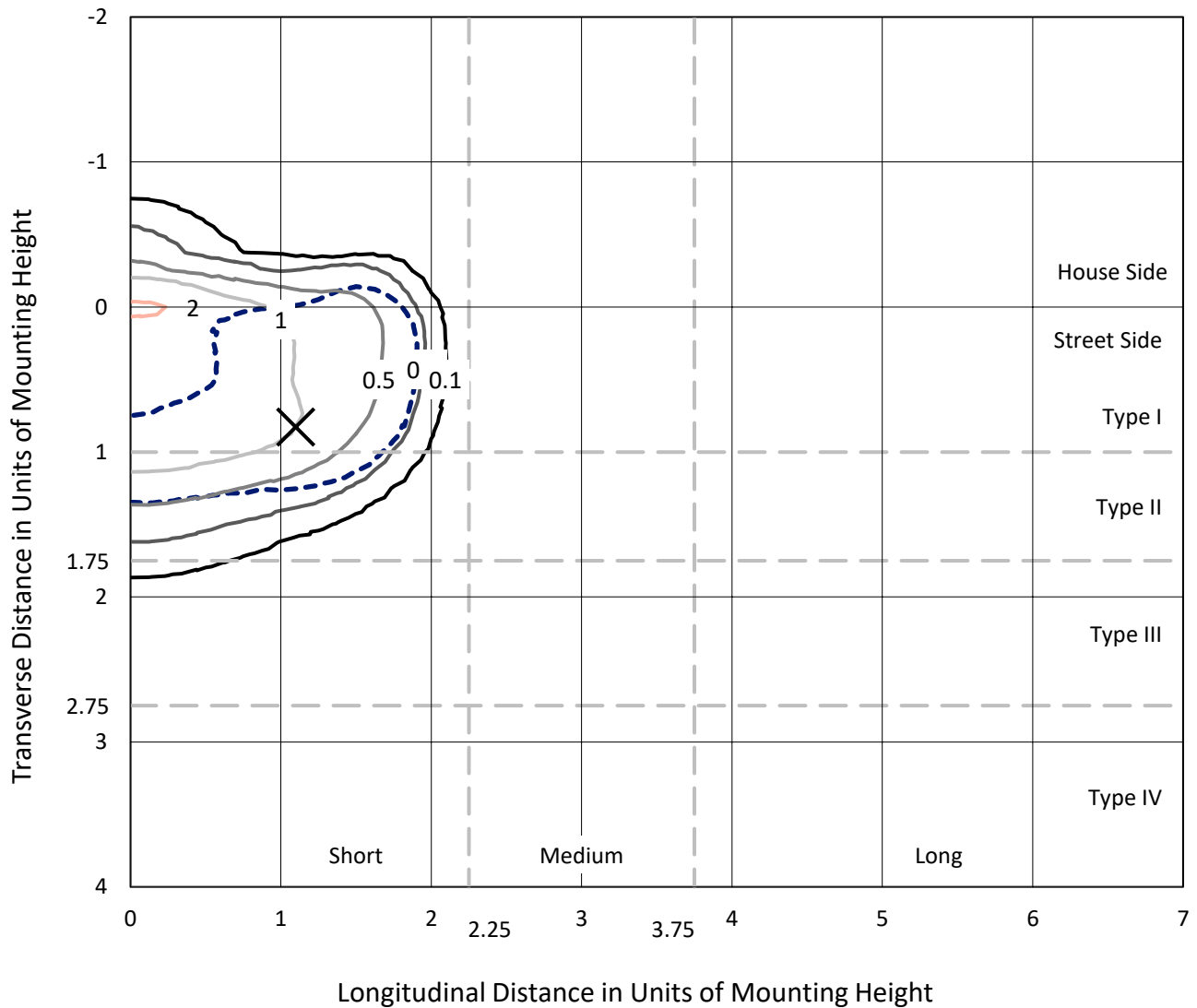
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

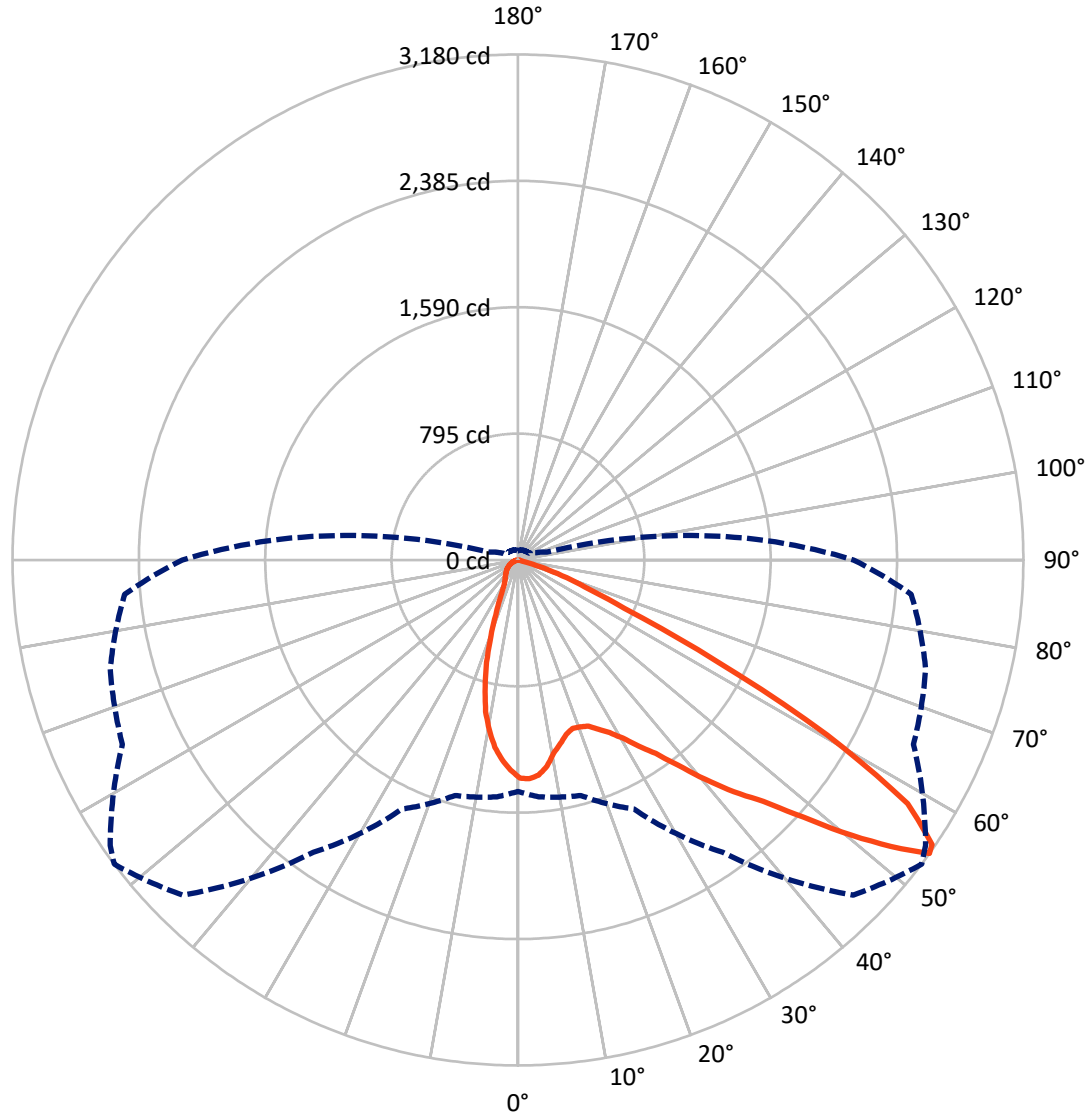
✕ Max cd
 - - - 1/2 Max cd



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 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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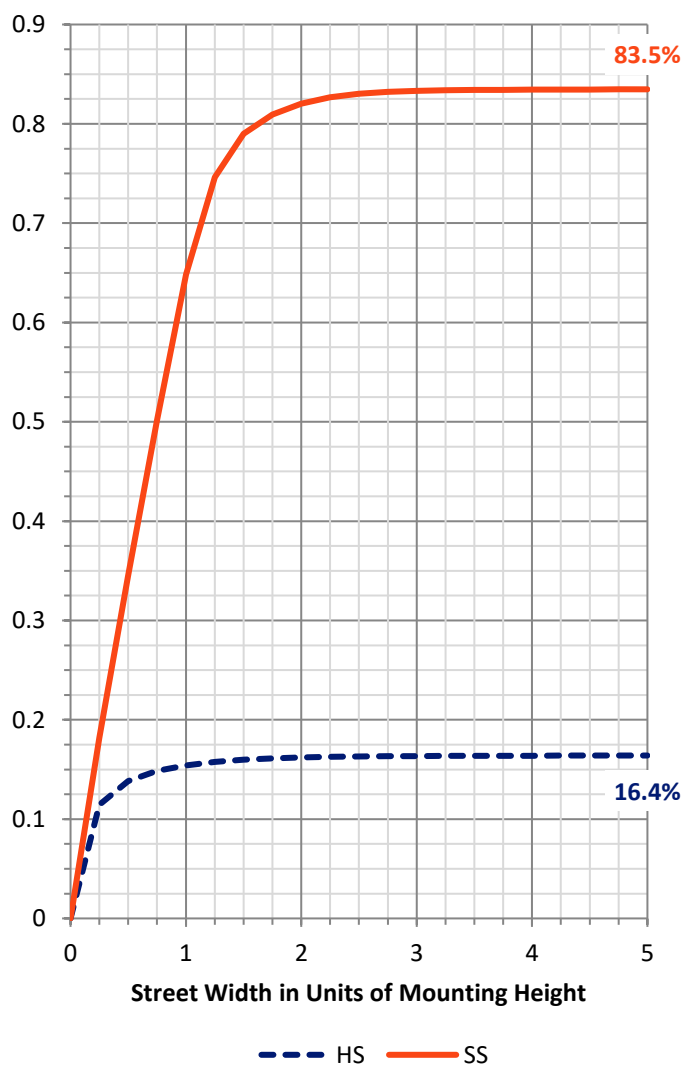
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	632.2	0.0	632.2
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	3188.8	0.0	3188.8
	% Fixture	83.5	0.0	83.5
Total	Lumens	3821.0	0.0	3821.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.8	3.1
10°-20°	270.0	7.1
20°-30°	383.7	10.0
30°-40°	592.1	15.5
40°-50°	928.4	24.3
50°-60°	1078.5	28.2
60°-70°	407.5	10.7
70°-80°	38.8	1.0
80°-90°	4.4	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°	3821.0	100.0
0°-180°	3821.0	100.0

Coefficient of Utilization



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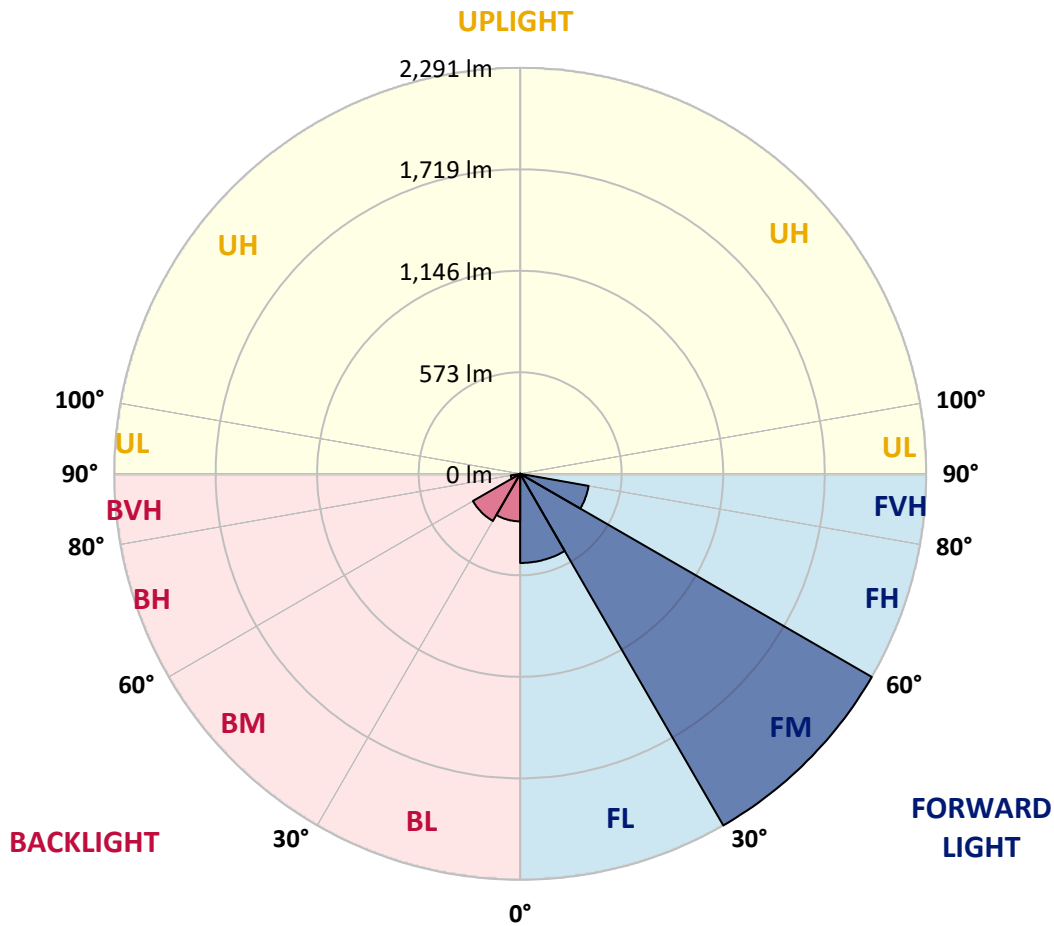
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	503.1	13.2			
FM (30°-60°)	2291.3	60.0			
FH (60°-80°)	392.1	10.3			G0/660
FVH (80°-90°)	2.3	0.1			G0/10
BL (0°-30°)	268.3	7.0	B1/500		
BM (30°-60°)	307.6	8.1	B1/1000		
BH (60°-80°)	54.2	1.4	B0/110		G0/110
BVH (80°-90°)	2.1	0.1			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°	53°	55°	65°	75°	85°
0°	1372.4	1372.4	1372.4	1372.4	1372.4	1372.4	1372.4	1372.4	1372.4	1372.4	1372.4
2.5°	1365.3	1353.2	1365.3	1366.7	1375.3	1383.1	1378.1	1389.5	1383.1	1376.0	1373.9
5°	1255.0	1271.4	1272.1	1297.7	1292.0	1339.0	1359.6	1353.9	1388.8	1386.7	1381.7
7.5°	1156.0	1149.6	1158.2	1188.1	1225.8	1279.9	1309.8	1309.1	1358.9	1394.5	1390.9
10°	1064.2	1063.5	1081.3	1104.8	1136.8	1193.8	1235.1	1255.7	1333.3	1387.4	1395.2
12.5°	1002.3	999.4	1018.7	1037.9	1088.4	1132.5	1185.2	1195.2	1284.2	1362.5	1375.3
15°	961.7	968.1	969.5	1006.6	1038.6	1097.0	1138.2	1158.9	1261.4	1342.5	1391.7
17.5°	954.6	963.1	963.8	994.4	1028.6	1077.7	1114.0	1141.8	1242.2	1352.5	1392.4
20°	968.8	963.8	968.1	987.3	1020.8	1067.8	1120.4	1129.7	1235.8	1357.5	1400.2
22.5°	1009.4	1008.0	997.3	1013.0	1036.4	1085.6	1135.4	1149.6	1254.3	1383.1	1406.6
25°	1054.2	1062.1	1052.1	1050.0	1066.3	1114.8	1181.0	1199.5	1316.2	1429.4	1426.5
27.5°	1138.2	1130.4	1130.4	1120.4	1116.2	1139.7	1230.1	1260.7	1385.3	1489.2	1449.3
30°	1218.7	1227.2	1220.8	1224.4	1195.9	1193.8	1299.8	1337.6	1507.7	1580.3	1497.7
32.5°	1346.1	1334.7	1345.4	1336.1	1298.4	1260.0	1394.5	1433.7	1655.8	1684.9	1570.3
35°	1452.2	1447.2	1492.7	1491.3	1430.1	1392.4	1494.9	1553.2	1759.0	1810.2	1655.8
37.5°	1603.1	1593.8	1645.8	1670.7	1615.9	1559.7	1638.7	1706.3	1855.1	1910.6	1743.3
40°	1758.3	1781.8	1851.5	1892.8	1834.4	1759.7	1814.5	1835.1	1919.1	1976.1	1803.1
42.5°	1954.7	1988.9	2060.1	2095.7	2090.7	2009.5	1993.2	1992.5	1965.4	1957.6	1847.2
45°	2143.4	2130.6	2240.2	2317.8	2380.4	2356.9	2165.4	2144.1	2038.7	1985.3	1858.6
47.5°	2225.9	2221.7	2296.4	2434.5	2648.1	2677.3	2416.0	2333.4	2162.6	2102.1	1920.6
50°	2119.2	2141.2	2215.3	2368.3	2695.8	2918.6	2723.5	2612.5	2307.1	2244.4	2067.2
52.5°	1770.4	1785.3	1855.8	2050.1	2533.5	3060.9	3018.2	2954.2	2572.6	2468.7	2322.8
54°	1455.7	1495.6	1534.0	1729.1	2244.4	2981.9	3179.8	3130.7	2745.6	2655.2	2483.6
55°	1267.8	1291.3	1319.1	1513.4	2044.4	2848.1	3161.3	3165.6	2861.6	2713.6	2591.8
57.5°	926.1	942.5	914.0	1000.1	1403.8	2312.8	2891.5	3006.8	3018.2	2801.1	2658.0
60°	707.6	714.7	682.7	696.2	872.7	1587.4	2236.6	2375.4	2722.8	2448.0	2251.6
62.5°	548.8	550.3	549.5	573.0	601.5	933.9	1398.8	1521.9	1877.1	1738.3	1529.0
65°	404.3	397.9	409.3	480.5	513.2	587.3	736.8	826.5	1020.1	861.3	615.7
67.5°	262.0	264.1	275.5	357.3	439.9	450.6	453.4	446.3	447.0	246.3	154.5
70°	157.3	160.9	157.3	202.2	314.6	323.2	295.4	288.3	224.9	58.4	57.7
72.5°	93.3	88.3	79.0	86.8	131.0	156.6	140.9	140.2	88.3	34.2	34.2
75°	39.2	35.6	29.2	26.3	34.9	33.5	33.5	29.9	23.5	22.8	21.4
77.5°	7.8	7.8	5.7	6.4	8.5	10.0	12.1	12.1	14.2	14.2	13.5
80°	0.0	0.7	2.1	4.3	6.4	9.3	10.7	10.7	12.1	12.1	10.0
82.5°	0.0	0.7	2.1	4.3	5.7	8.5	10.7	10.7	12.1	12.8	10.7
85°	0.0	0.7	2.1	3.6	5.7	7.1	7.1	6.4	5.0	4.3	2.8
87.5°	0.0	0.0	0.7	1.4	0.7	1.4	1.4	1.4	1.4	1.4	1.4
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°	1372.4	1372.4	1372.4	1372.4	1372.4	1372.4	1372.4	1372.4	1372.4	1372.4	1372.4
2.5°	1378.8	1378.1	1361.0	1333.3	1326.9	1303.4	1300.5	1286.3	1294.1	1267.8	1265.0
5°	1367.5	1358.9	1338.3	1320.5	1268.5	1231.5	1202.3	1166.7	1146.1	1149.6	1136.1
7.5°	1383.8	1361.8	1325.5	1263.5	1200.2	1135.4	1100.5	1027.9	1001.6	962.4	956.7
10°	1366.7	1350.4	1294.1	1191.6	1104.1	1010.8	929.0	848.5	787.3	761.0	755.3
12.5°	1365.3	1336.8	1242.9	1129.0	1002.3	868.5	749.6	649.2	588.7	554.5	546.7
15°	1343.3	1309.1	1185.2	1032.2	857.1	690.5	560.9	464.1	417.9	397.9	403.6
17.5°	1345.4	1294.1	1127.6	929.7	714.0	506.8	383.0	333.1	321.0	326.0	326.0
20°	1343.3	1260.7	1057.8	811.5	546.7	351.7	281.2	263.4	271.2	286.9	283.3
22.5°	1331.9	1245.0	993.7	686.9	402.2	260.5	225.7	226.4	238.5	257.7	262.0
25°	1340.4	1210.1	912.6	560.9	293.3	207.9	195.8	200.7	213.6	227.8	230.6
27.5°	1334.0	1185.2	827.9	435.6	214.3	178.7	178.0	183.7	189.4	200.0	200.0
30°	1341.1	1162.4	744.6	323.9	176.5	163.7	160.9	165.1	170.8	173.0	172.3
32.5°	1367.5	1145.4	648.5	242.0	155.9	149.5	149.5	149.5	148.8	151.6	152.3
35°	1425.1	1148.2	563.8	187.2	142.4	137.4	135.3	132.4	131.0	132.4	133.1
37.5°	1487.8	1146.8	476.2	159.5	132.4	128.1	123.1	118.9	118.2	119.6	117.5
40°	1515.5	1160.3	395.1	143.1	123.1	118.2	110.3	106.8	107.5	108.9	107.5
42.5°	1553.2	1164.6	342.4	130.3	114.6	106.8	101.8	97.5	96.8	98.9	98.2
45°	1552.5	1140.4	286.9	123.1	106.8	98.2	91.8	88.3	88.3	89.7	90.4
47.5°	1598.1	1136.8	246.3	116.7	101.1	92.5	84.7	81.9	81.2	81.2	79.7
50°	1704.2	1186.6	215.0	109.6	94.0	86.1	79.7	76.2	73.3	71.9	71.2
52.5°	1911.3	1341.8	190.8	101.1	86.1	79.7	74.0	71.2	67.6	64.1	63.4
54°	2112.0	1502.0	189.4	94.0	79.7	75.5	70.5	69.0	64.8	59.8	58.4
55°	2202.5	1595.2	194.3	88.3	75.5	72.6	68.3	66.9	62.6	56.9	56.2
57.5°	2277.2	1631.6	191.5	73.3	68.3	67.6	64.1	61.9	56.9	49.1	47.7
60°	1833.0	1233.6	137.4	64.8	62.6	61.2	58.4	56.9	50.5	42.0	41.3
62.5°	1158.2	709.7	87.6	56.9	54.8	52.7	49.1	47.7	42.0	33.5	31.3
65°	493.3	294.0	59.1	50.5	47.0	43.4	40.6	38.4	33.5	24.9	24.2
67.5°	128.1	104.6	49.1	44.1	39.2	34.2	32.0	28.5	22.8	17.1	16.4
70°	57.7	52.7	41.3	37.0	31.3	26.3	23.5	19.9	14.9	11.4	10.7
72.5°	34.2	33.5	31.3	27.8	23.5	19.9	17.1	13.5	10.0	6.4	6.4
75°	21.4	20.6	21.4	19.2	16.4	14.9	12.8	9.3	5.7	2.8	2.8
77.5°	12.8	12.8	12.8	12.1	11.4	11.4	9.3	5.7	2.8	0.7	0.7
80°	10.0	10.0	10.7	10.0	10.0	10.0	7.8	4.3	1.4	0.0	0.0
82.5°	10.0	10.7	12.1	11.4	10.0	8.5	7.1	4.3	1.4	0.0	0.0
85°	2.8	2.1	3.6	5.0	7.1	6.4	5.0	3.6	1.4	0.0	0.0
87.5°	1.4	1.4	1.4	1.4	0.7	0.7	0.7	0.7	0.7	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)