

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: P526515

Luminaire Tested: **GALN-SA1C-727-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526515
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-SA1C-727-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1050mA 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: 3473 lumens
Efficiency: N/A
Efficacy: 60.9 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

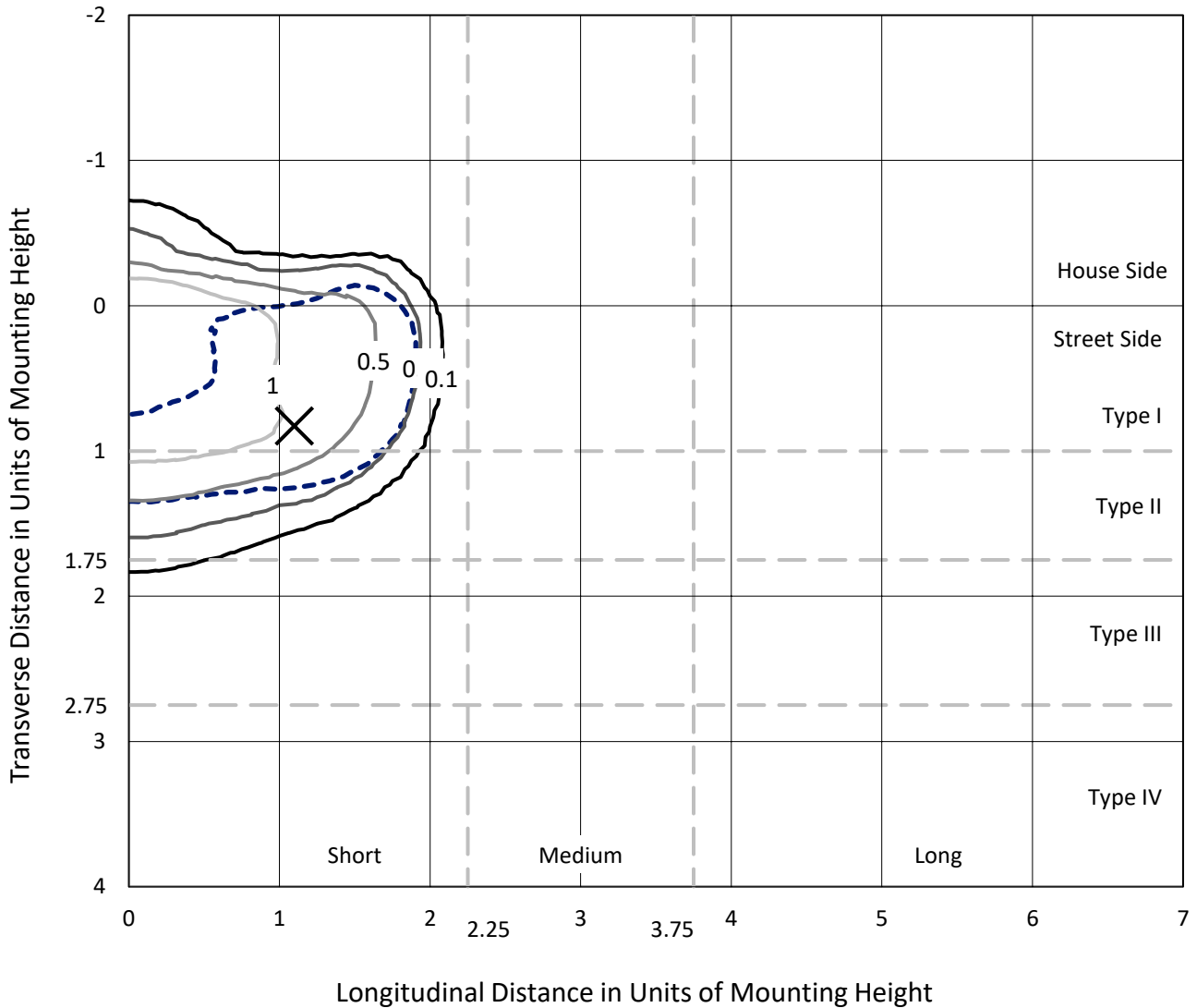
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P526515
 CATALOG NUMBER: GALN-SA1C-727-U-SL2-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

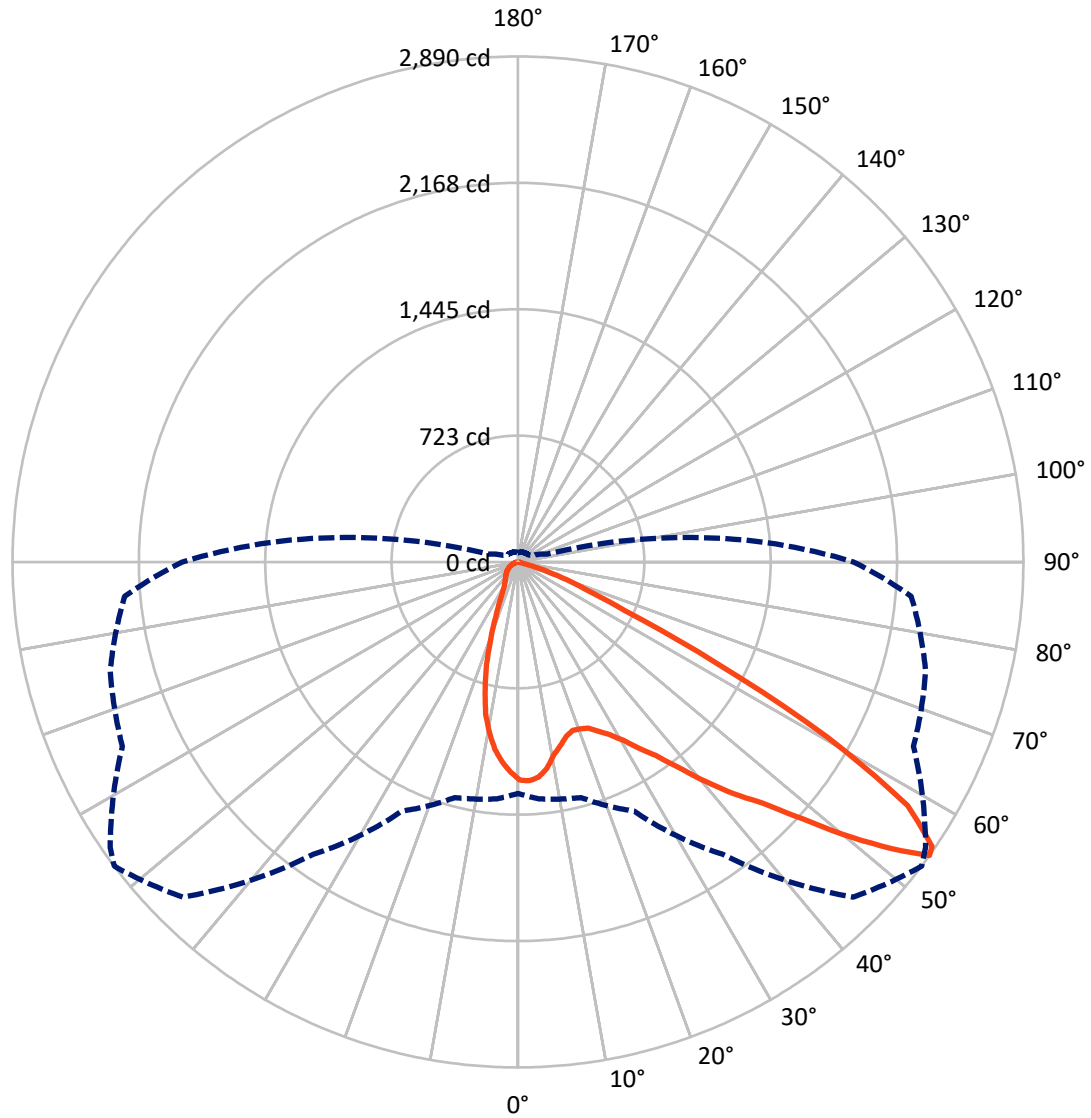
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P526515
CATALOG NUMBER: GALN-SA1C-727-U-SL2-GRSBK

Luminous Intensity Polar Plot



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

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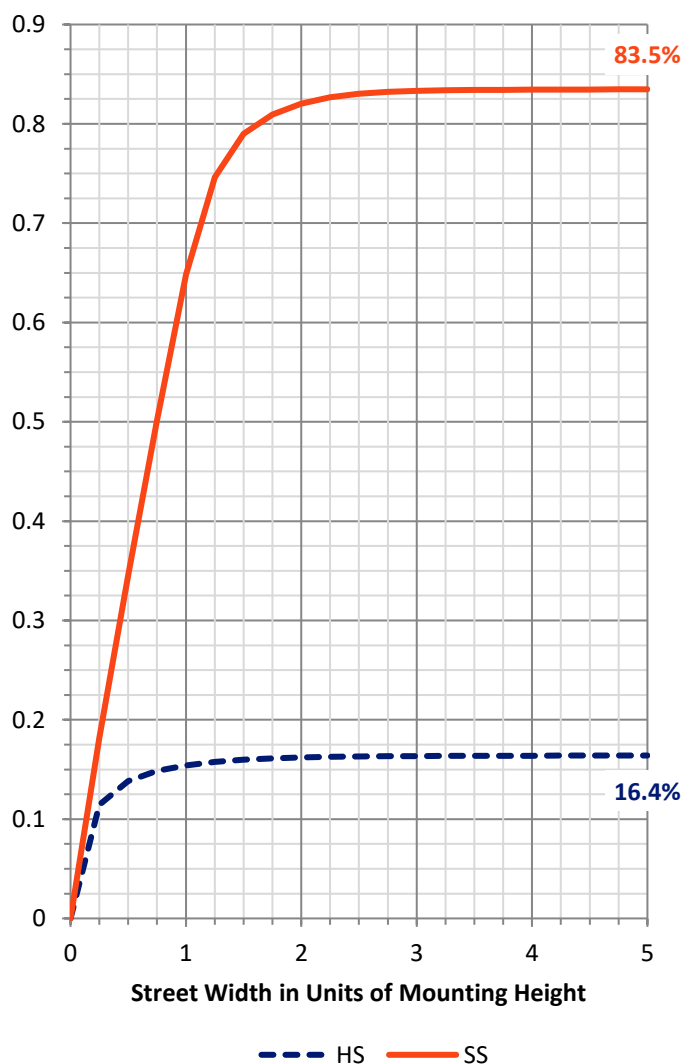
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	574.6	0.0	574.6
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	2898.4	0.0	2898.4
	% Fixture	83.5	0.0	83.5
Total	Lumens	3473.0	0.0	3473.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.0	3.1
10°-20°	245.4	7.1
20°-30°	348.7	10.0
30°-40°	538.2	15.5
40°-50°	843.8	24.3
50°-60°	980.2	28.2
60°-70°	370.4	10.7
70°-80°	35.2	1.0
80°-90°	4.0	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°	3473.0	100.0
0°-180°	3473.0	100.0

Coefficient of Utilization

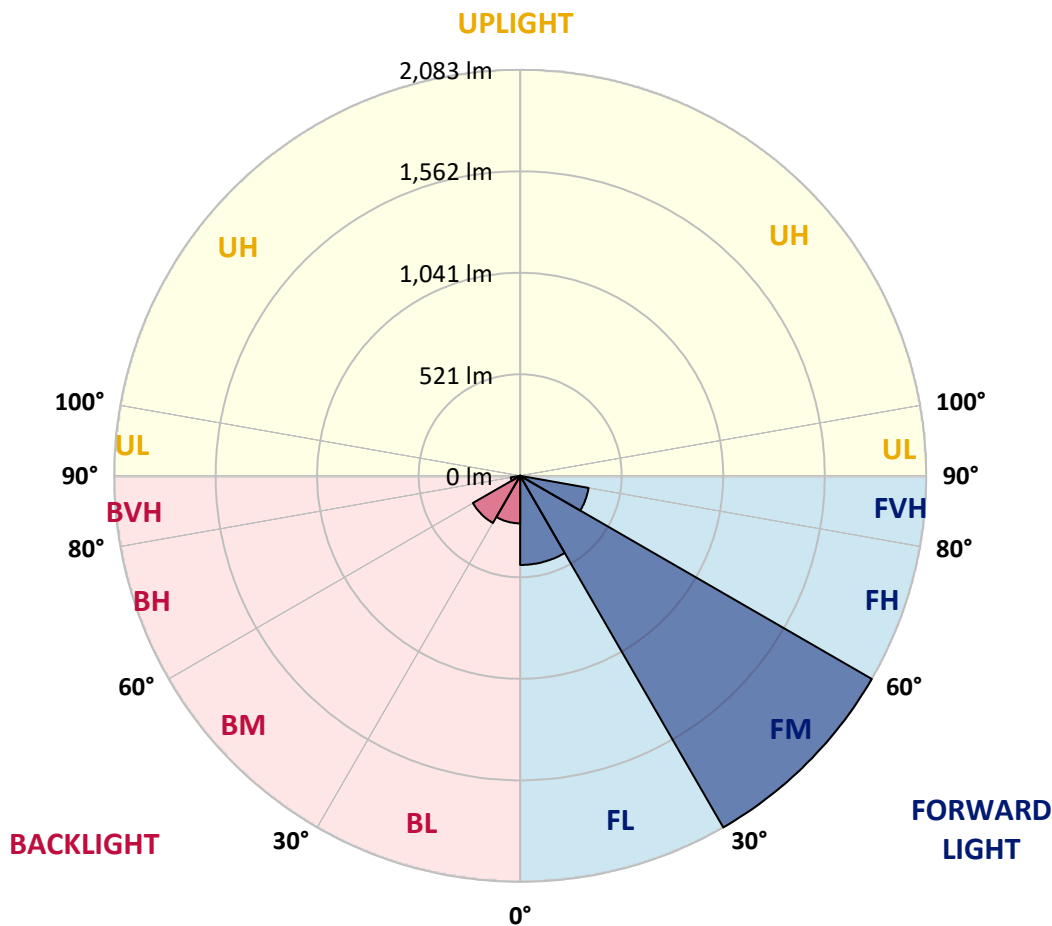


REPORT NUMBER: P526515
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	457.3	13.2			
FM (30°-60°)	2082.6	60.0			
FH (60°-80°)	356.4	10.3			G0/660
FVH (80°-90°)	2.0	0.1			G0/10
BL (0°-30°)	243.8	7.0	B1/500		
BM (30°-60°)	279.6	8.1	B1/1000		
BH (60°-80°)	49.2	1.4	B0/110		G0/110
BVH (80°-90°)	1.9	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





REPORT NUMBER: P526515

CATALOG NUMBER: GALN-SA1C-727-U-SL2-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	1247.4	1247.4	1247.4	1247.4	1247.4	1247.4	1247.4	1247.4	1247.4	1247.4	1247.4
2.5°	1241.0	1230.0	1241.0	1242.3	1250.0	1257.1	1252.6	1263.0	1257.1	1250.7	1248.7
5°	1140.7	1155.6	1156.2	1179.5	1174.3	1217.0	1235.8	1230.6	1262.3	1260.4	1255.9
7.5°	1050.8	1044.9	1052.7	1079.9	1114.2	1163.3	1190.5	1189.9	1235.1	1267.5	1264.3
10°	967.3	966.6	982.8	1004.2	1033.3	1085.0	1122.6	1141.3	1211.9	1261.0	1268.1
12.5°	911.0	908.4	925.9	943.3	989.3	1029.4	1077.3	1086.3	1167.2	1238.4	1250.0
15°	874.1	879.9	881.2	914.9	944.0	997.0	1034.6	1053.3	1146.5	1220.3	1264.9
17.5°	867.6	875.4	876.1	903.9	934.9	979.6	1012.6	1037.8	1129.0	1229.3	1265.6
20°	880.6	876.1	879.9	897.4	927.8	970.5	1018.4	1026.8	1123.2	1233.9	1272.7
22.5°	917.5	916.2	906.5	920.7	942.1	986.7	1032.0	1044.9	1140.0	1257.1	1278.5
25°	958.2	965.3	956.3	954.3	969.2	1013.2	1073.4	1090.2	1196.3	1299.2	1296.6
27.5°	1034.6	1027.5	1027.5	1018.4	1014.5	1035.9	1118.0	1145.9	1259.1	1353.6	1317.3
30°	1107.7	1115.5	1109.6	1112.9	1087.0	1085.0	1181.4	1215.7	1370.4	1436.4	1361.3
32.5°	1223.5	1213.2	1222.9	1214.4	1180.2	1145.2	1267.5	1303.1	1505.0	1531.5	1427.3
35°	1319.9	1315.4	1356.8	1355.5	1299.9	1265.6	1358.7	1411.8	1598.8	1645.4	1505.0
37.5°	1457.1	1448.7	1495.9	1518.5	1468.7	1417.6	1489.4	1550.9	1686.1	1736.6	1584.5
40°	1598.1	1619.5	1682.9	1720.4	1667.4	1599.4	1649.2	1668.0	1744.3	1796.1	1638.9
42.5°	1776.7	1807.8	1872.5	1904.8	1900.3	1826.5	1811.6	1811.0	1786.4	1779.3	1679.0
45°	1948.2	1936.5	2036.2	2106.7	2163.6	2142.3	1968.2	1948.8	1853.0	1804.5	1689.4
47.5°	2023.2	2019.3	2087.3	2212.8	2406.9	2433.4	2196.0	2120.9	1965.6	1910.6	1745.6
50°	1926.2	1946.2	2013.5	2152.6	2450.2	2652.8	2475.5	2374.5	2097.0	2040.0	1878.9
52.5°	1609.1	1622.7	1686.8	1863.4	2302.7	2782.2	2743.3	2685.1	2338.3	2243.8	2111.2
54°	1323.1	1359.4	1394.3	1571.6	2040.0	2710.3	2890.2	2845.6	2495.5	2413.4	2257.4
55°	1152.3	1173.7	1198.9	1375.6	1858.2	2588.7	2873.4	2877.3	2601.0	2466.4	2355.8
57.5°	841.8	856.6	830.8	909.1	1275.9	2102.1	2628.2	2733.0	2743.3	2546.0	2416.0
60°	643.1	649.6	620.5	632.8	793.2	1442.8	2032.9	2159.1	2474.8	2225.1	2046.5
62.5°	498.8	500.1	499.5	520.8	546.7	848.9	1271.4	1383.3	1706.2	1580.0	1389.8
65°	367.5	361.7	372.0	436.7	466.5	533.8	669.7	751.2	927.2	782.9	559.7
67.5°	238.1	240.0	250.4	324.8	399.9	409.6	412.1	405.7	406.3	223.9	140.4
70°	143.0	146.2	143.0	183.8	286.0	293.7	268.5	262.0	204.5	53.1	52.4
72.5°	84.8	80.2	71.8	78.9	119.1	142.3	128.1	127.5	80.2	31.1	31.1
75°	35.6	32.4	26.5	23.9	31.7	30.4	30.4	27.2	21.4	20.7	19.4
77.5°	7.1	7.1	5.2	5.8	7.8	9.1	11.0	11.0	12.9	12.9	12.3
80°	0.0	0.6	1.9	3.9	5.8	8.4	9.7	9.7	11.0	11.0	9.1
82.5°	0.0	0.6	1.9	3.9	5.2	7.8	9.7	9.7	11.0	11.6	9.7
85°	0.0	0.6	1.9	3.2	5.2	6.5	6.5	5.8	4.5	3.9	2.6
87.5°	0.0	0.0	0.6	1.3	0.6	1.3	1.3	1.3	1.3	1.3	1.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P526515

CATALOG NUMBER: GALN-SA1C-727-U-SL2-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1247.4	1247.4	1247.4	1247.4	1247.4	1247.4	1247.4	1247.4	1247.4	1247.4	1247.4
2.5°	1253.3	1252.6	1237.1	1211.9	1206.0	1184.7	1182.1	1169.2	1176.3	1152.3	1149.7
5°	1242.9	1235.1	1216.4	1200.2	1153.0	1119.3	1092.8	1060.5	1041.7	1044.9	1032.6
7.5°	1257.8	1237.7	1204.7	1148.4	1090.9	1032.0	1000.3	934.3	910.3	874.8	869.6
10°	1242.3	1227.4	1176.3	1083.1	1003.5	918.8	844.4	771.2	715.6	691.7	686.5
12.5°	1241.0	1215.1	1129.7	1026.2	911.0	789.4	681.3	590.1	535.1	504.0	496.9
15°	1220.9	1189.9	1077.3	938.2	779.0	627.6	509.8	421.9	379.8	361.7	366.9
17.5°	1222.9	1176.3	1024.9	845.0	649.0	460.7	348.1	302.8	291.8	296.3	296.3
20°	1220.9	1145.9	961.5	737.6	496.9	319.6	255.6	239.4	246.5	260.7	257.5
22.5°	1210.6	1131.6	903.2	624.4	365.6	236.8	205.1	205.8	216.7	234.2	238.1
25°	1218.3	1099.9	829.5	509.8	266.6	188.9	177.9	182.5	194.1	207.0	209.6
27.5°	1212.5	1077.3	752.5	396.0	194.8	162.4	161.8	166.9	172.1	181.8	181.8
30°	1219.0	1056.6	676.8	294.4	160.5	148.8	146.2	150.1	155.3	157.2	156.6
32.5°	1242.9	1041.0	589.4	220.0	141.7	135.9	135.9	135.9	135.2	137.8	138.5
35°	1295.3	1043.6	512.4	170.2	129.4	124.9	122.9	120.3	119.1	120.3	121.0
37.5°	1352.3	1042.3	432.9	144.9	120.3	116.5	111.9	108.1	107.4	108.7	106.8
40°	1377.5	1054.6	359.1	130.0	111.9	107.4	100.3	97.1	97.7	99.0	97.7
42.5°	1411.8	1058.5	311.2	118.4	104.2	97.1	92.5	88.6	88.0	89.9	89.3
45°	1411.1	1036.5	260.7	111.9	97.1	89.3	83.5	80.2	80.2	81.5	82.2
47.5°	1452.5	1033.3	223.9	106.1	91.9	84.1	77.0	74.4	73.8	73.8	72.5
50°	1549.0	1078.6	195.4	99.6	85.4	78.3	72.5	69.2	66.6	65.3	64.7
52.5°	1737.2	1219.6	173.4	91.9	78.3	72.5	67.3	64.7	61.5	58.2	57.6
54°	1919.7	1365.2	172.1	85.4	72.5	68.6	64.1	62.8	58.9	54.3	53.1
55°	2001.9	1450.0	176.6	80.2	68.6	66.0	62.1	60.8	56.9	51.8	51.1
57.5°	2069.8	1483.0	174.0	66.6	62.1	61.5	58.2	56.3	51.8	44.6	43.3
60°	1666.1	1121.3	124.9	58.9	56.9	55.6	53.1	51.8	45.9	38.2	37.5
62.5°	1052.7	645.1	79.6	51.8	49.8	47.9	44.6	43.3	38.2	30.4	28.5
65°	448.4	267.2	53.7	45.9	42.7	39.5	36.9	34.9	30.4	22.6	22.0
67.5°	116.5	95.1	44.6	40.1	35.6	31.1	29.1	25.9	20.7	15.5	14.9
70°	52.4	47.9	37.5	33.6	28.5	23.9	21.4	18.1	13.6	10.4	9.7
72.5°	31.1	30.4	28.5	25.2	21.4	18.1	15.5	12.3	9.1	5.8	5.8
75°	19.4	18.8	19.4	17.5	14.9	13.6	11.6	8.4	5.2	2.6	2.6
77.5°	11.6	11.6	11.6	11.0	10.4	10.4	8.4	5.2	2.6	0.6	0.6
80°	9.1	9.1	9.7	9.1	9.1	9.1	7.1	3.9	1.3	0.0	0.0
82.5°	9.1	9.7	11.0	10.4	9.1	7.8	6.5	3.9	1.3	0.0	0.0
85°	2.6	1.9	3.2	4.5	6.5	5.8	4.5	3.2	1.3	0.0	0.0
87.5°	1.3	1.3	1.3	1.3	0.6	0.6	0.6	0.6	0.6	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)