

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: P526044

Luminaire Tested: **GALN-SA1A-727-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526044
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1A-727-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3492 lumens
Efficiency: N/A
Efficacy: 105.8 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

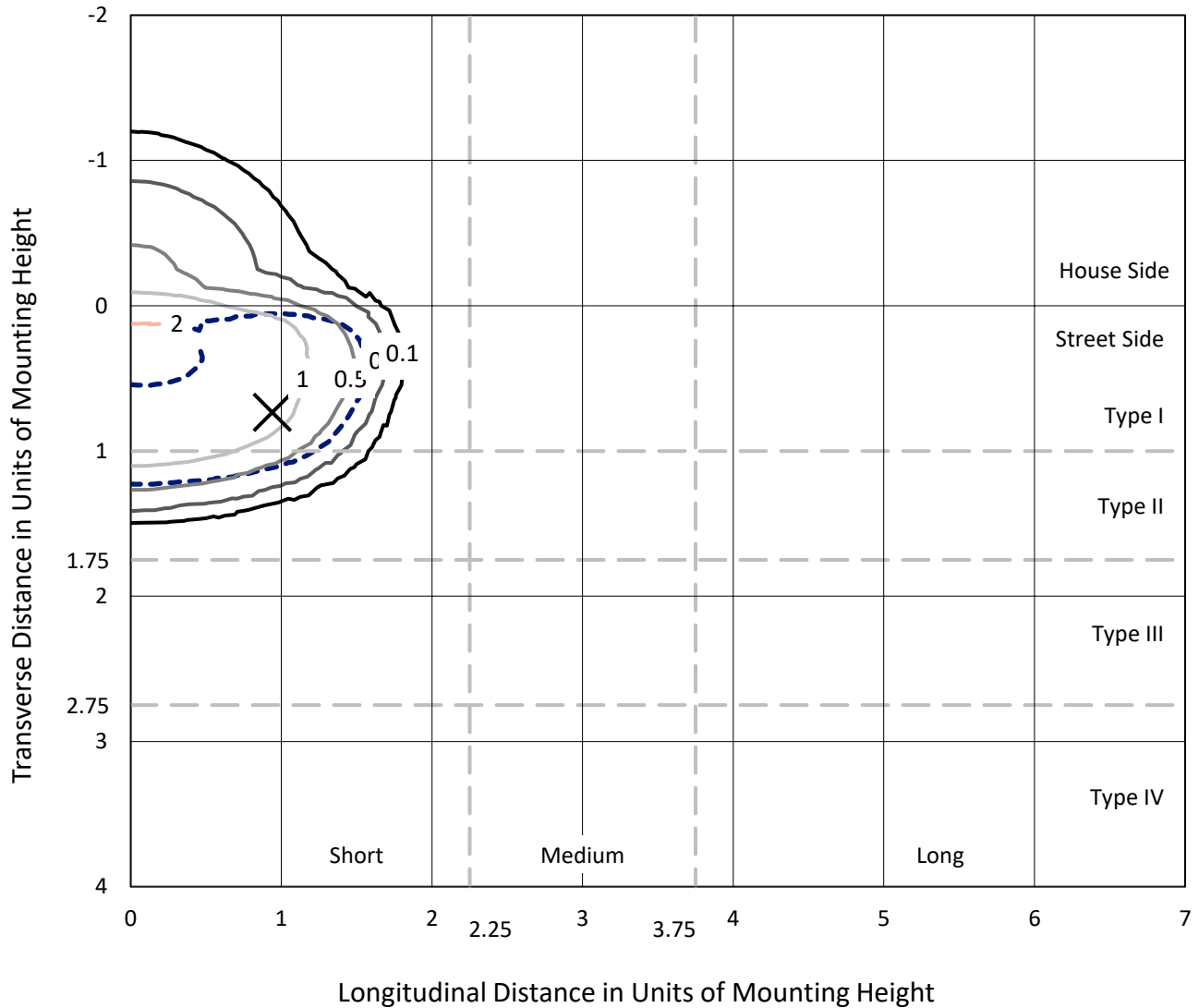
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

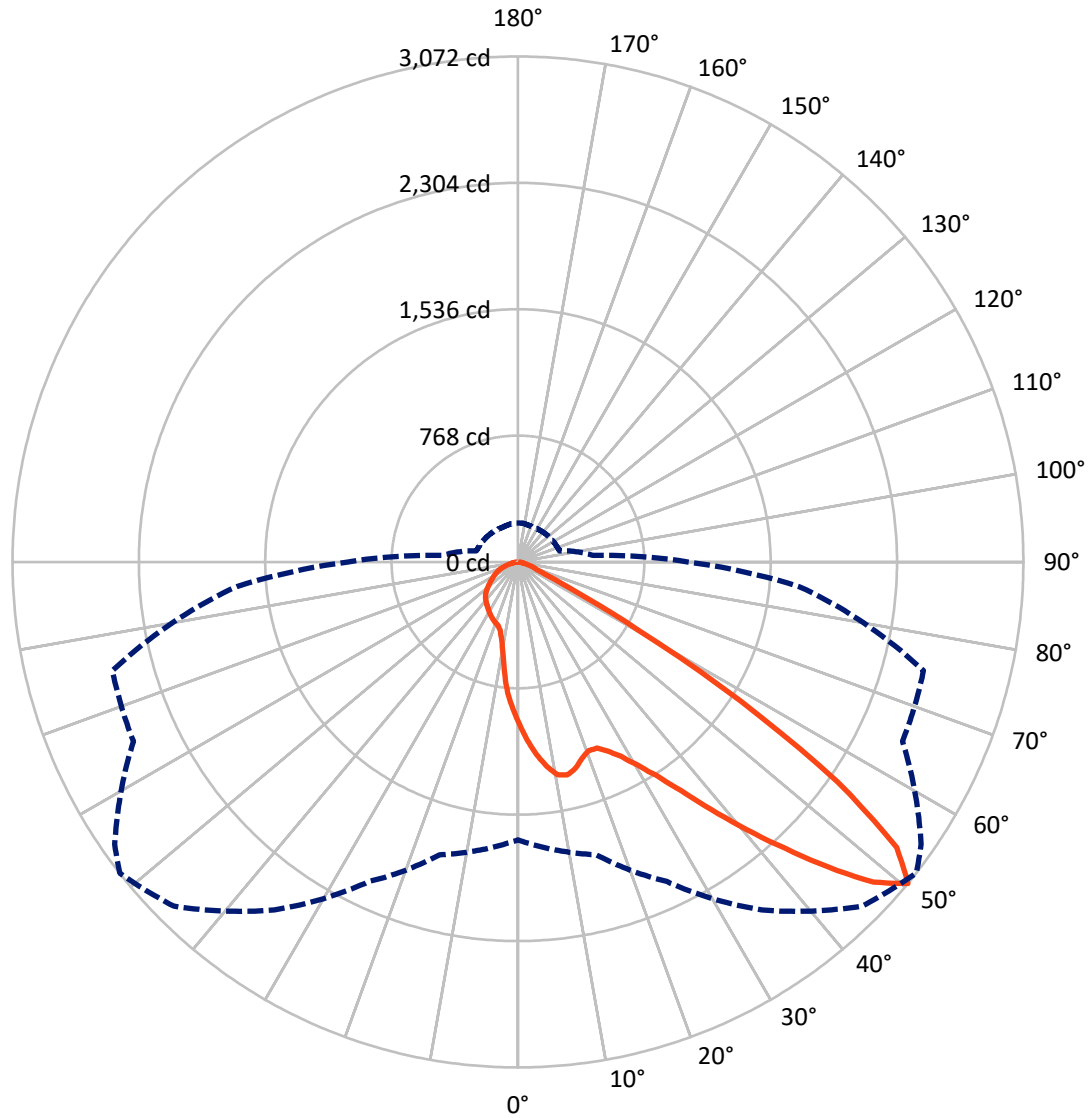
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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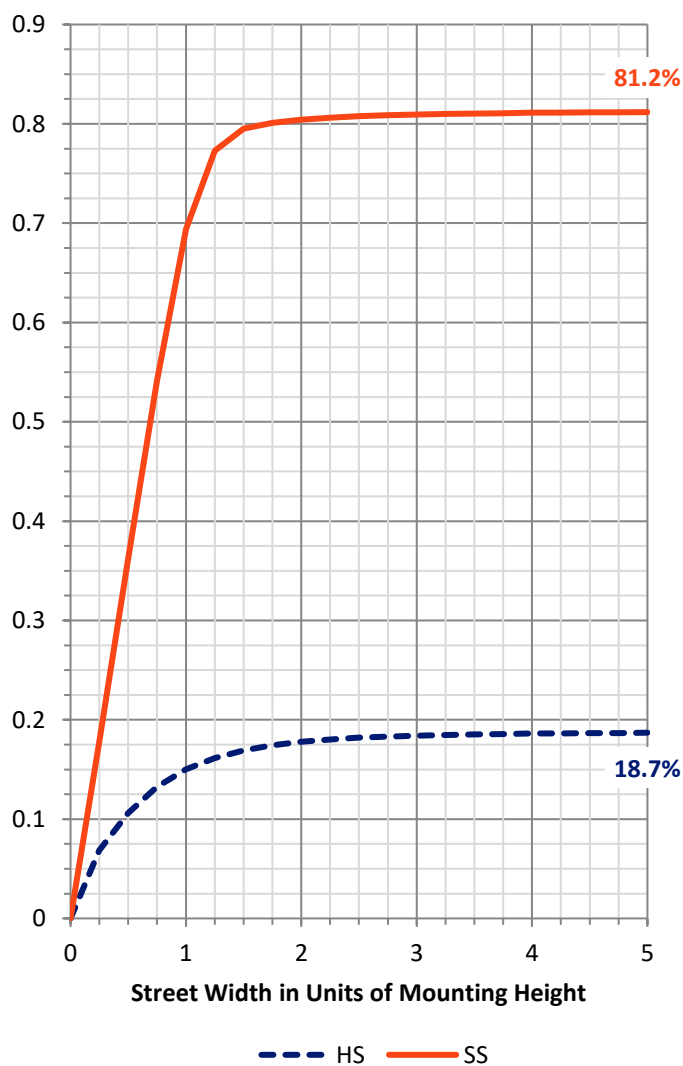
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	656.4	0.0	656.4
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	2835.6	0.0	2835.6
	% Fixture	81.2	0.0	81.2
Total	Lumens	3492.0	0.0	3492.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.7	2.6
10°-20°	243.2	7.0
20°-30°	409.6	11.7
30°-40°	687.4	19.7
40°-50°	1051.5	30.1
50°-60°	766.6	22.0
60°-70°	170.6	4.9
70°-80°	61.5	1.8
80°-90°	10.9	0.3
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°	3492.0	100.0
0°-180°	3492.0	100.0

Coefficient of Utilization

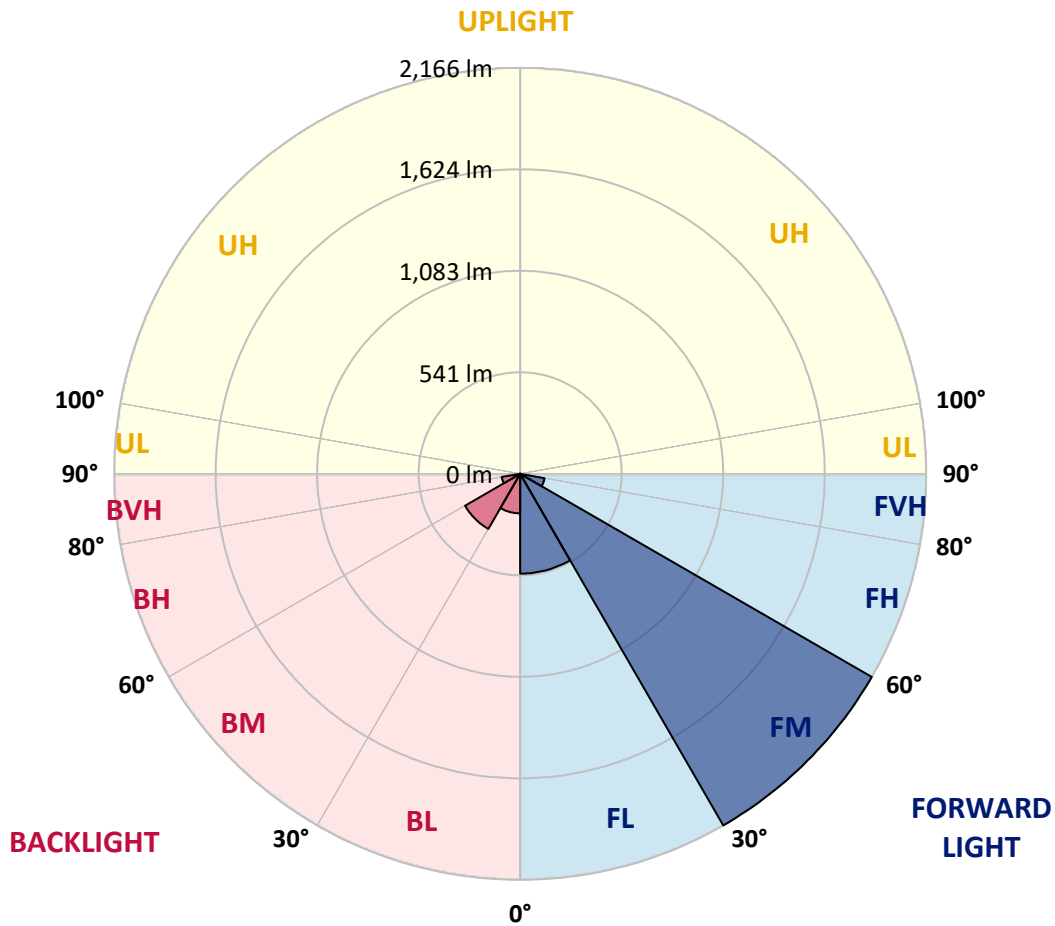


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	532.6	15.3			
FM (30°-60°)	2165.9	62.0			
FH (60°-80°)	132.1	3.8			G0/660
FVH (80°-90°)	4.9	0.1			G0/10
BL (0°-30°)	210.9	6.0	B1/500		
BM (30°-60°)	339.5	9.7	B1/1000		
BH (60°-80°)	100.0	2.9	B0/110		G0/110
BVH (80°-90°)	6.0	0.2			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°	52°	55°	65°	75°	85°
0°	984.3	984.3	984.3	984.3	984.3	984.3	984.3	984.3	984.3	984.3	984.3
2.5°	1159.0	1136.7	1139.2	1123.2	1106.0	1100.9	1083.2	1066.4	1053.8	1026.8	1002.0
5°	1266.7	1260.0	1249.9	1237.3	1224.2	1192.2	1174.1	1153.1	1106.8	1065.1	1023.9
7.5°	1282.3	1281.0	1286.5	1286.5	1291.1	1278.9	1253.3	1238.5	1189.3	1121.5	1044.9
10°	1172.9	1176.7	1203.2	1237.7	1285.7	1318.9	1314.7	1310.9	1257.0	1164.5	1069.8
12.5°	1085.8	1077.3	1092.9	1122.4	1194.3	1274.7	1329.0	1329.4	1315.5	1233.1	1087.9
15°	1036.5	1042.4	1046.6	1060.5	1114.8	1207.8	1303.3	1331.5	1392.5	1281.4	1116.5
17.5°	1068.1	1048.3	1047.5	1050.8	1078.6	1148.5	1255.8	1304.2	1434.6	1343.7	1151.8
20°	1109.3	1108.9	1097.1	1092.9	1092.5	1154.8	1224.6	1290.3	1456.9	1424.5	1187.6
22.5°	1181.7	1181.7	1162.4	1153.1	1133.3	1184.2	1228.8	1273.5	1494.0	1480.1	1204.9
25°	1302.9	1283.1	1249.9	1227.2	1215.8	1233.9	1273.5	1313.4	1526.4	1539.0	1240.6
27.5°	1414.9	1383.7	1367.3	1328.2	1313.0	1302.5	1338.7	1379.1	1564.2	1630.7	1260.0
30°	1541.9	1536.5	1507.0	1456.5	1419.1	1399.7	1432.9	1472.9	1633.7	1724.6	1304.6
32.5°	1769.2	1719.5	1679.6	1617.7	1556.7	1515.4	1548.3	1574.8	1749.0	1822.6	1353.4
35°	2014.5	1998.6	1929.5	1818.0	1724.6	1687.6	1706.9	1726.7	1883.2	1972.5	1435.5
37.5°	2255.7	2233.8	2177.0	2083.1	1969.5	1894.2	1908.1	1931.2	2033.9	2174.5	1535.6
40°	2429.1	2402.1	2373.5	2359.6	2246.8	2143.7	2135.7	2141.6	2237.6	2363.8	1646.7
42.5°	2441.7	2474.9	2483.8	2539.7	2513.2	2428.6	2379.4	2380.7	2432.0	2551.1	1759.1
45°	2415.2	2384.5	2449.7	2602.5	2690.0	2729.5	2646.6	2636.1	2552.4	2659.7	1815.1
47.5°	2137.0	2145.4	2255.7	2497.2	2750.2	2926.9	2907.6	2872.6	2616.8	2655.9	1806.2
50°	1689.2	1740.2	1842.4	2143.3	2581.8	2958.1	3072.1	2991.3	2578.5	2551.5	1716.2
52.5°	1124.9	1145.9	1213.3	1601.7	2076.0	2644.1	2882.7	2901.2	2543.1	2414.8	1602.1
55°	500.8	499.1	593.8	836.6	1302.5	2012.0	2355.4	2468.2	2407.2	2275.5	1491.0
57.5°	212.1	219.3	258.0	361.5	640.5	1214.1	1595.8	1694.7	1851.3	1868.5	1143.8
60°	143.5	144.3	154.9	181.0	268.1	570.2	837.0	955.7	1067.7	1060.1	606.8
62.5°	112.8	115.7	123.7	134.2	159.1	258.8	374.5	440.6	447.8	376.6	230.2
65°	96.4	96.8	104.8	113.6	124.6	150.7	180.5	183.9	186.0	179.3	169.2
67.5°	79.5	80.4	86.7	96.8	106.9	115.3	123.7	127.9	137.6	156.6	154.0
70°	63.1	64.4	69.9	78.3	87.5	92.6	103.1	106.9	115.7	130.5	136.4
72.5°	48.0	48.4	53.0	58.9	67.3	72.4	81.2	85.4	91.3	103.9	109.4
75°	34.5	35.8	39.1	42.1	43.3	46.7	55.1	59.8	68.2	73.6	74.1
77.5°	18.1	18.9	19.8	19.8	24.0	30.3	35.8	38.3	44.2	48.4	46.3
80°	7.2	7.6	9.7	13.0	16.8	21.9	25.7	26.9	32.0	34.5	35.8
82.5°	4.2	4.6	6.3	9.3	12.2	15.6	18.5	19.8	23.1	26.1	26.9
85°	2.1	2.5	3.8	5.9	8.0	9.7	9.3	8.8	8.8	8.4	8.8
87.5°	0.8	0.8	1.3	1.3	1.3	1.7	2.1	2.1	2.1	2.5	2.5
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°	984.3	984.3	984.3	984.3	984.3	984.3	984.3	984.3	984.3	984.3	984.3
2.5°	985.6	968.8	953.2	924.6	893.4	884.6	848.4	835.4	826.1	815.2	811.8
5°	990.6	968.3	918.3	860.6	814.7	755.8	717.1	675.4	645.1	637.6	635.5
7.5°	1001.2	962.9	876.6	789.5	695.6	615.7	554.7	521.8	492.8	491.1	488.2
10°	1013.0	946.5	831.2	694.4	574.4	500.4	463.8	449.5	442.3	440.6	439.8
12.5°	1022.6	943.1	780.2	601.8	488.6	444.0	433.0	431.8	434.7	435.6	437.2
15°	1026.8	929.6	718.8	518.9	435.1	418.7	423.4	428.4	430.5	436.0	431.8
17.5°	1034.8	912.4	643.0	453.2	405.3	408.2	416.2	422.1	425.5	429.3	423.8
20°	1039.0	896.8	571.9	414.1	394.7	400.2	411.2	415.8	420.0	421.7	415.4
22.5°	1035.3	864.8	509.2	382.5	384.6	391.8	401.5	406.5	404.0	397.3	393.5
25°	1025.2	819.8	444.0	362.3	370.3	383.0	390.5	386.7	382.1	378.3	377.1
27.5°	1024.7	764.7	396.8	343.8	358.1	375.4	372.9	369.5	371.6	368.7	365.3
30°	1026.8	711.2	358.1	333.3	349.3	357.7	360.7	357.3	359.8	354.3	356.0
32.5°	1015.9	659.0	332.9	321.1	338.8	338.4	348.0	350.6	344.7	333.3	335.0
35°	1020.5	616.9	311.4	315.6	327.0	327.0	334.6	331.6	316.0	309.3	311.0
37.5°	1052.5	575.7	300.9	308.1	315.6	319.0	316.5	303.8	300.1	300.1	300.9
40°	1082.8	540.4	294.6	306.4	305.1	307.2	288.7	290.0	290.0	290.4	288.3
42.5°	1109.7	516.4	289.5	296.3	298.4	287.4	276.1	274.8	277.8	277.3	275.6
45°	1119.4	496.6	282.4	284.9	286.6	268.5	263.0	260.5	263.9	265.1	266.8
47.5°	1082.4	480.2	274.4	269.3	266.0	254.2	247.0	242.4	246.6	253.8	255.4
50°	1034.8	458.7	261.8	252.1	244.9	239.9	234.8	230.2	233.1	238.2	236.9
52.5°	964.6	425.0	245.8	235.7	223.5	224.7	220.1	217.6	219.3	219.3	218.0
55°	864.4	349.3	218.8	211.7	201.6	204.9	205.8	202.4	199.1	202.0	199.5
57.5°	590.0	246.6	195.3	195.3	185.2	189.8	189.4	181.4	173.4	174.2	172.5
60°	341.3	196.5	180.1	178.4	167.9	171.7	172.5	167.1	154.9	155.7	154.0
62.5°	194.0	167.9	157.4	154.9	152.8	156.1	156.1	149.0	138.5	139.3	137.6
65°	165.0	155.7	140.6	140.1	139.3	140.1	136.8	129.2	119.9	116.2	116.6
67.5°	149.8	143.9	129.2	125.4	122.9	122.5	116.2	109.0	104.8	101.4	101.0
70°	131.3	126.7	115.7	110.7	108.2	102.3	96.0	91.3	85.4	83.7	85.4
72.5°	103.9	103.5	99.3	93.8	88.4	83.7	78.3	72.0	66.5	65.2	62.3
75°	72.0	72.8	73.6	72.8	68.2	62.3	56.0	50.9	44.2	40.4	39.6
77.5°	47.1	48.4	49.7	48.0	45.0	39.6	35.4	29.0	24.0	21.0	20.6
80°	34.5	36.2	37.0	35.8	32.4	28.2	23.6	18.5	14.7	12.2	12.2
82.5°	26.5	28.2	29.0	26.9	23.6	20.2	16.8	13.0	10.1	8.0	7.6
85°	9.3	8.8	10.5	10.9	13.0	12.2	10.1	7.6	5.9	4.2	3.8
87.5°	2.5	2.5	2.9	2.9	2.5	2.1	2.1	2.1	1.7	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

(END OF REPORT)