

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: P450691

Luminaire Tested: **GALN-SA1C-730-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450691
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-730-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 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: 5359 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

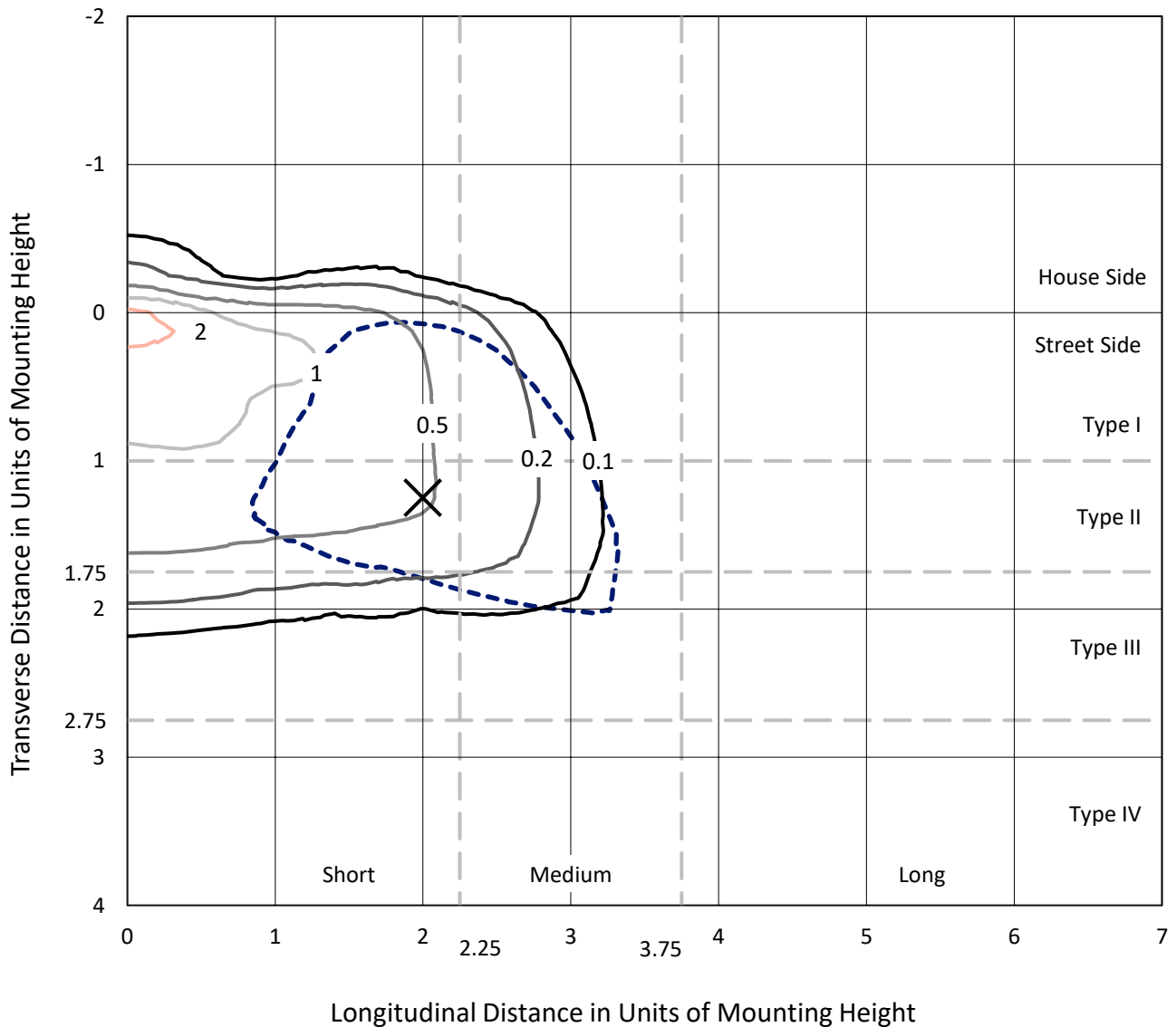
Input Watts (W): 57
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

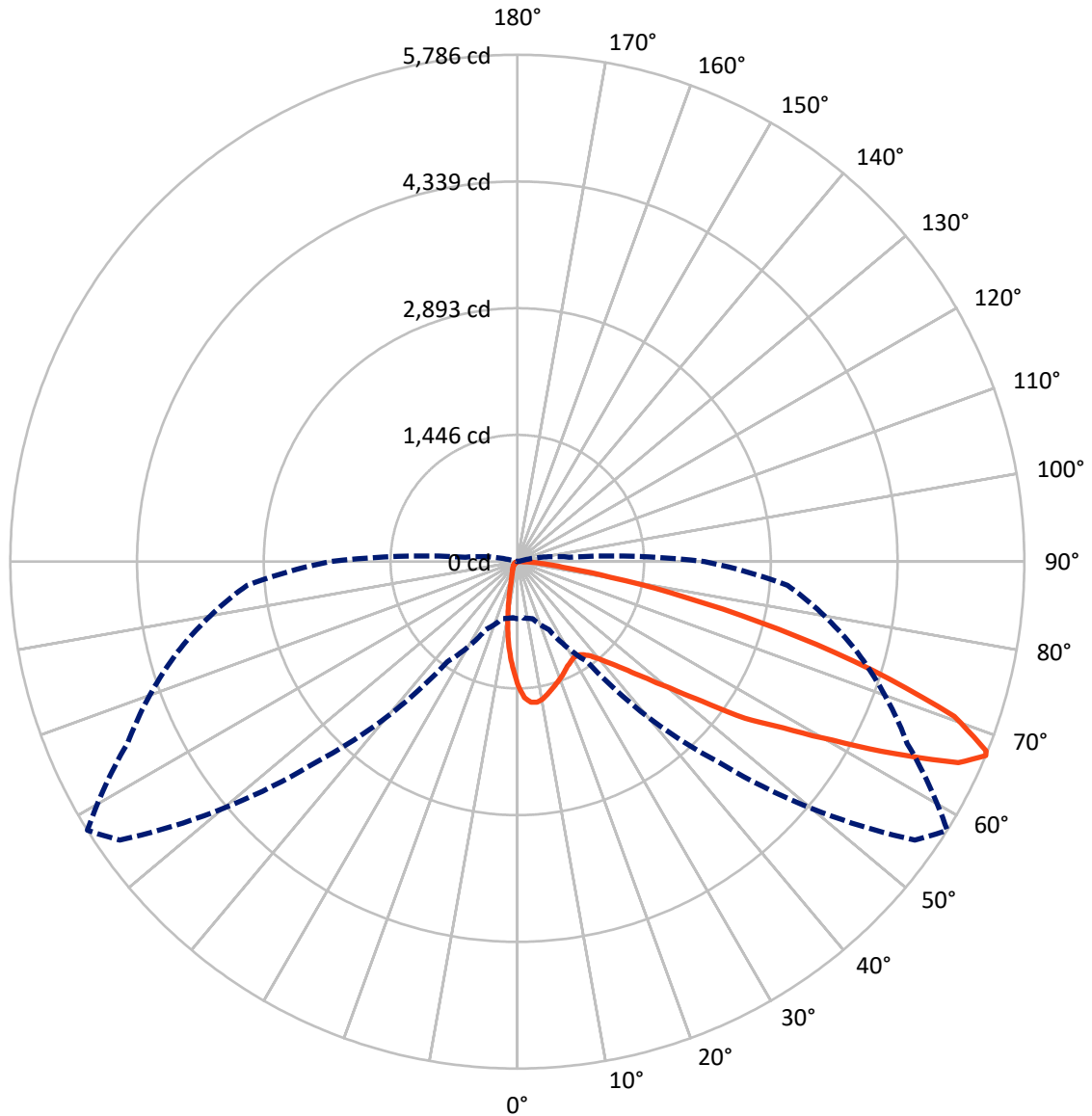
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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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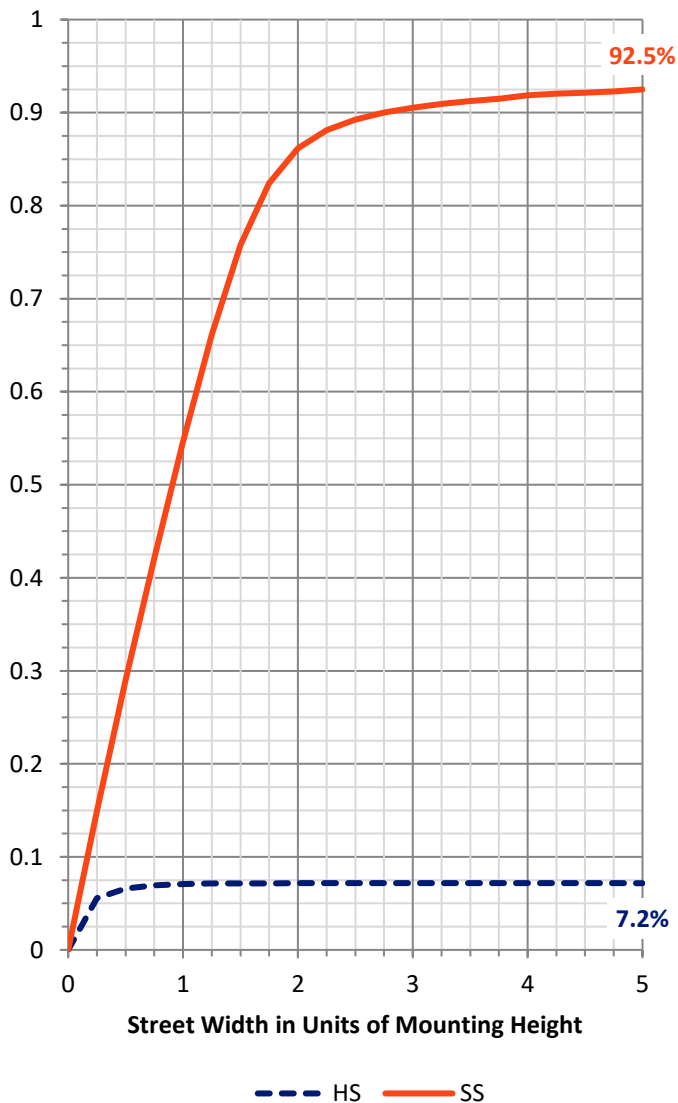
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	386.7	0.0	386.7
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	4972.3	0.0	4972.3
	% Fixture	92.8	0.0	92.8
Total	Lumens	5359.0	0.0	5359.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.3	2.2
10°-20°	249.0	4.6
20°-30°	337.4	6.3
30°-40°	467.9	8.7
40°-50°	746.3	13.9
50°-60°	1290.0	24.1
60°-70°	1473.6	27.5
70°-80°	614.4	11.5
80°-90°	65.1	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°	5359.0	100.0
0°-180°	5359.0	100.0

Coefficient of Utilization



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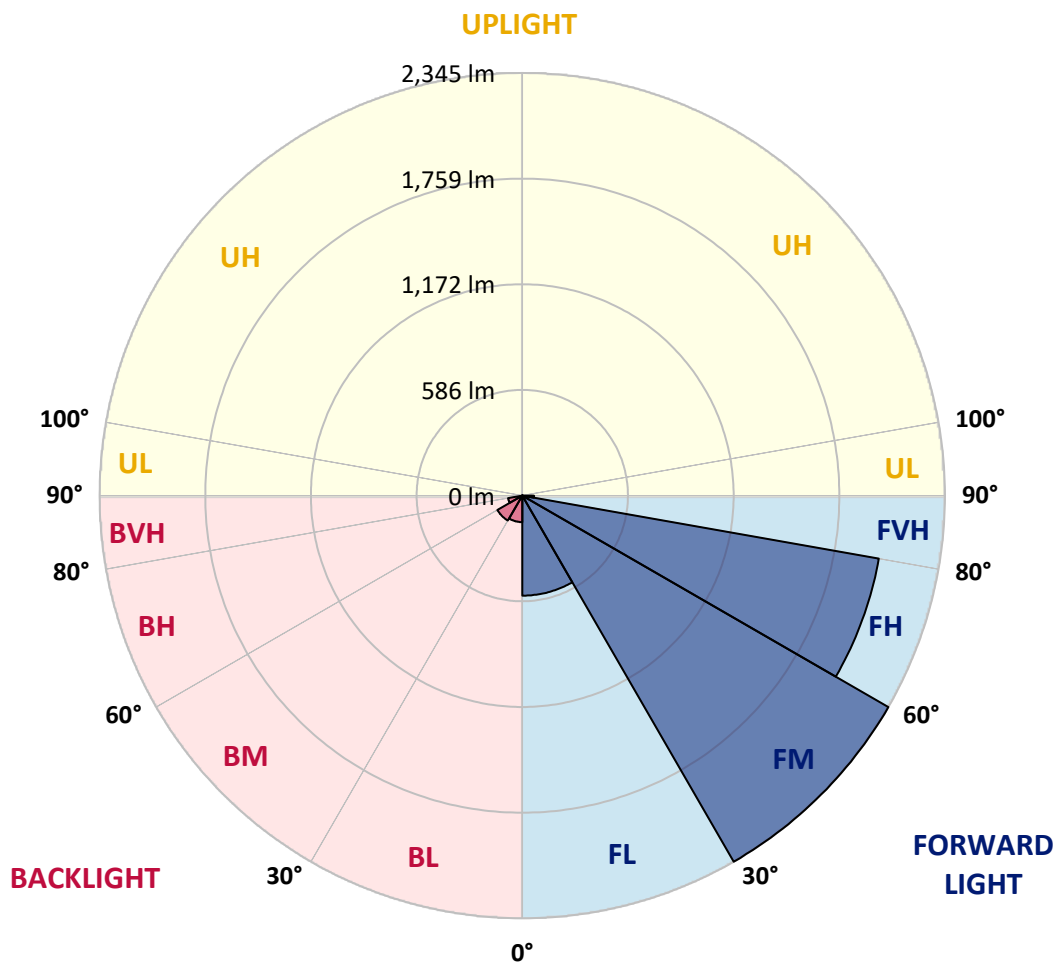
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	554.8	10.4			
FM (30°-60°)	2344.8	43.8			
FH (60°-80°)	2008.0	37.5			G2/5000
FVH (80°-90°)	64.7	1.2			G1/100
BL (0°-30°)	146.9	2.7	B1/500		
BM (30°-60°)	159.5	3.0	B0/220		
BH (60°-80°)	79.9	1.5	B0/110		G0/110
BVH (80°-90°)	0.5	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1420.6	1420.6	1420.6	1420.6	1420.6	1420.6	1420.6	1420.6	1420.6	1420.6	1420.6
2.5°	1648.7	1651.2	1641.9	1634.4	1615.1	1594.3	1566.7	1552.0	1527.0	1483.6	1435.7
5°	1687.4	1690.6	1689.2	1687.4	1679.9	1659.8	1624.7	1611.9	1575.0	1504.4	1417.8
7.5°	1601.5	1613.3	1614.7	1628.7	1641.9	1643.7	1630.5	1620.8	1586.8	1504.1	1385.9
10°	1487.6	1495.5	1506.9	1523.0	1554.9	1581.4	1594.3	1592.9	1573.2	1493.0	1348.6
12.5°	1372.6	1376.9	1394.5	1422.1	1461.1	1506.2	1540.6	1547.4	1547.8	1479.7	1317.5
15°	1273.8	1272.0	1285.6	1317.5	1372.3	1428.9	1490.5	1501.2	1518.4	1466.8	1288.5
17.5°	1189.3	1198.6	1200.7	1235.8	1286.3	1359.7	1438.2	1457.1	1491.5	1455.7	1264.5
20°	1137.0	1142.0	1146.7	1166.4	1211.8	1289.2	1389.1	1415.3	1466.5	1445.7	1237.6
22.5°	1121.6	1124.8	1120.9	1127.0	1159.2	1228.0	1335.7	1370.5	1442.5	1436.4	1215.8
25°	1133.4	1136.6	1127.3	1120.2	1131.3	1178.2	1284.2	1326.4	1423.1	1434.6	1199.3
27.5°	1162.1	1168.2	1155.3	1142.4	1135.9	1151.3	1243.7	1292.8	1409.9	1443.2	1191.8
30°	1206.8	1210.4	1200.7	1185.0	1170.3	1154.9	1222.6	1269.5	1406.3	1463.2	1191.1
32.5°	1255.5	1263.1	1257.7	1247.3	1228.3	1191.8	1228.7	1270.2	1414.9	1492.2	1200.0
35°	1315.7	1324.3	1329.3	1327.2	1302.8	1257.3	1267.4	1302.4	1437.8	1545.6	1224.4
37.5°	1374.8	1382.3	1410.6	1420.3	1398.8	1355.8	1342.6	1365.8	1488.3	1615.4	1268.4
40°	1442.5	1452.5	1492.2	1529.1	1518.7	1473.6	1449.3	1468.6	1565.7	1720.7	1351.9
42.5°	1507.3	1525.2	1585.7	1650.9	1660.6	1610.1	1593.9	1600.4	1680.3	1872.2	1468.3
45°	1599.3	1616.1	1694.2	1782.7	1828.2	1788.8	1772.3	1771.2	1837.5	2085.3	1657.0
47.5°	1732.2	1747.2	1839.3	1926.6	2007.6	2012.9	1981.8	1992.5	2035.1	2334.5	1888.3
50°	1895.1	1930.6	1991.1	2082.1	2190.2	2277.6	2287.2	2272.9	2309.5	2623.2	2166.2
52.5°	2131.8	2145.4	2200.9	2275.8	2402.6	2550.8	2665.8	2646.1	2634.6	2898.2	2447.0
55°	2308.4	2326.6	2412.9	2515.7	2701.6	2897.1	3146.4	3153.2	3008.5	3162.5	2721.6
57.5°	2255.0	2283.0	2413.7	2620.3	3028.9	3386.3	3571.8	3576.4	3354.4	3419.2	3031.8
60°	1981.1	1994.3	2181.6	2457.3	3056.8	3916.3	4175.2	4137.6	3706.4	3706.4	3305.7
62.5°	1404.9	1425.6	1577.5	1983.2	2760.7	4100.4	4897.9	4820.2	4191.3	3981.1	3469.0
65°	897.8	877.7	978.4	1252.0	2056.6	3828.6	5527.1	5531.7	4647.5	4091.0	3379.8
67°	650.3	642.4	671.5	855.9	1394.5	3218.3	5540.3	5785.6	4909.7	4021.6	3094.8
67.5°	594.8	600.9	622.0	772.1	1267.0	2928.6	5480.2	5770.6	4968.8	3979.7	2991.6
70°	450.9	440.5	463.4	546.1	759.6	1847.5	4714.2	5292.5	4895.4	3563.9	2390.4
72.5°	331.6	330.5	362.4	446.6	584.8	984.1	3538.8	4243.6	3999.4	2713.8	1505.1
75°	223.8	233.8	284.7	373.2	530.0	638.2	2412.6	3078.7	2776.4	1540.9	615.2
77.5°	127.5	128.2	183.4	299.7	475.9	513.5	1429.6	1961.4	1469.7	512.5	182.6
80°	55.1	60.5	91.0	217.7	394.6	454.8	819.7	1077.9	594.5	108.5	59.1
82.5°	20.4	24.0	40.1	133.9	287.9	374.6	495.3	514.6	201.6	38.3	36.9
85°	0.0	0.7	14.7	62.7	150.0	167.2	330.9	305.1	89.2	18.3	24.0
87.5°	0.0	0.0	0.0	6.4	19.7	62.3	102.8	114.6	21.5	6.4	5.7
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°	1420.6	1420.6	1420.6	1420.6	1420.6	1420.6	1420.6	1420.6	1420.6	1420.6	1420.6
2.5°	1409.9	1386.6	1328.2	1269.9	1226.5	1190.4	1135.9	1106.2	1090.4	1067.2	1068.6
5°	1374.4	1327.2	1224.4	1118.0	1032.1	948.3	848.0	807.5	773.5	754.2	741.3
7.5°	1321.8	1252.0	1099.8	957.9	825.8	679.3	569.4	496.0	446.6	428.3	410.8
10°	1264.1	1171.4	973.3	776.7	593.4	442.3	349.2	281.8	257.8	235.6	237.8
12.5°	1210.8	1098.0	857.3	613.1	415.8	281.1	219.2	191.6	183.7	181.2	181.2
15°	1167.1	1027.8	732.7	460.9	285.1	202.0	175.5	168.0	165.1	164.4	164.4
17.5°	1120.5	961.2	620.2	340.6	207.3	169.0	160.1	155.1	154.0	153.3	153.3
20°	1079.0	894.2	513.5	253.5	167.6	152.2	146.5	143.2	142.2	141.5	141.8
22.5°	1039.6	834.8	413.3	191.6	147.5	138.6	132.9	129.6	127.5	125.7	126.1
25°	1004.5	777.5	332.3	156.9	132.9	125.0	119.3	114.6	109.9	107.8	107.4
27.5°	979.8	727.3	258.9	134.3	119.6	111.0	103.9	98.1	92.0	88.8	88.1
30°	959.4	676.5	204.8	118.5	106.4	98.1	89.2	80.9	74.5	71.3	69.8
32.5°	946.1	628.1	161.5	105.6	95.3	85.2	75.2	67.0	59.8	56.6	55.9
35°	944.0	587.7	132.1	94.9	85.2	74.5	64.1	55.1	49.1	45.8	45.1
37.5°	959.4	556.5	110.7	86.3	77.0	65.2	53.7	45.5	40.1	37.6	37.2
40°	1000.6	536.8	96.0	79.1	69.5	56.6	45.8	38.7	33.3	30.8	30.8
42.5°	1079.0	537.5	86.3	72.3	62.0	48.3	39.0	32.2	27.6	25.4	24.7
45°	1201.5	561.9	78.1	65.5	54.8	41.9	33.3	26.5	21.8	20.1	20.1
47.5°	1365.5	610.2	70.9	58.7	48.3	35.8	28.3	21.5	17.5	15.8	15.8
50°	1580.0	687.9	64.8	53.0	43.0	30.8	22.9	17.5	13.6	12.2	11.8
52.5°	1804.2	783.9	57.7	48.0	36.9	26.1	18.6	13.6	10.4	9.3	9.0
55°	2051.6	877.7	50.9	43.0	30.1	21.8	14.7	10.7	7.5	6.4	6.4
57.5°	2301.2	969.8	42.6	35.8	23.6	16.1	11.5	7.9	5.0	3.9	3.9
60°	2512.5	999.5	36.2	29.0	17.9	11.5	8.2	5.0	2.9	1.8	1.8
62.5°	2541.5	899.2	30.4	22.2	12.9	7.9	4.3	2.9	1.1	0.7	0.7
65°	2383.9	730.5	25.4	16.8	8.6	3.9	1.8	1.1	0.4	0.0	0.0
67°	2136.1	592.3	20.8	12.5	6.1	2.5	1.1	0.4	0.0	0.0	0.0
67.5°	2072.7	564.7	20.1	11.8	5.4	2.1	0.7	0.4	0.0	0.0	0.0
70°	1626.5	422.9	14.3	7.2	3.2	1.4	0.0	0.0	0.0	0.0	0.0
72.5°	1010.9	239.2	10.4	4.3	2.1	0.7	0.0	0.0	0.0	0.0	0.0
75°	382.1	83.8	7.2	2.9	1.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	118.9	31.9	4.3	2.1	0.7	0.0	0.0	0.0	0.0	0.0	0.0
80°	40.1	12.2	2.9	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	24.7	5.0	1.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	15.4	2.1	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.9	0.7	0.4	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)