

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: P534621

Luminaire Tested: **GALN-SA8A-AMB-U-SL3-HSS**

Issue Date: 6/10/2021

Test Information

Test Method: LM-79-08
Report Number: P534621
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-067-7)
Test Lab: INNOVATION CENTER
Issue Date: 6/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8A-AMB-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) NARROW BAND AMBER, 500mA LIGHTSQUARES WITH 16 LEDS EACH 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: 6269 lumens
Efficiency: N/A
Efficacy: 39.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 158.1
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



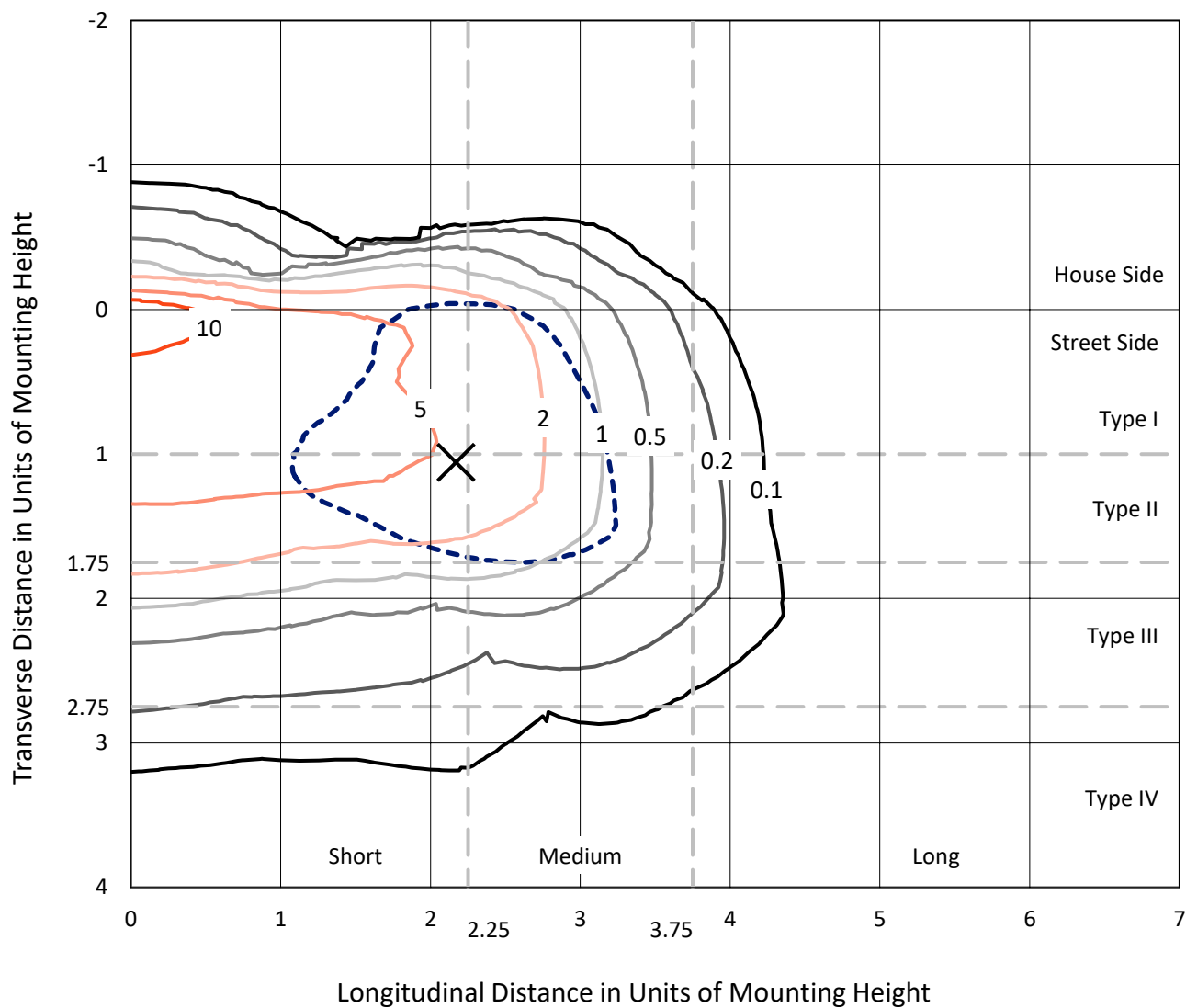
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

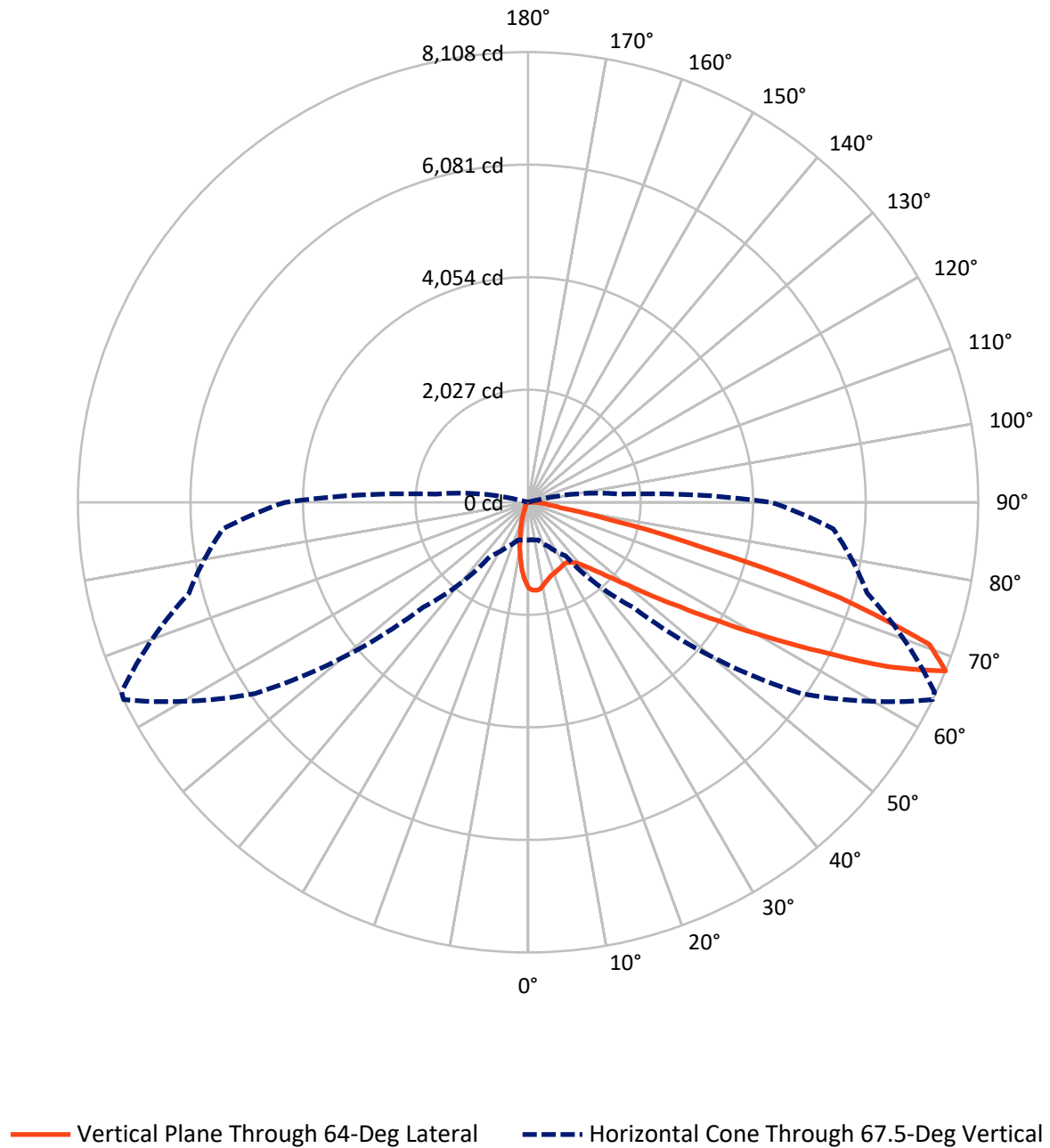
--- 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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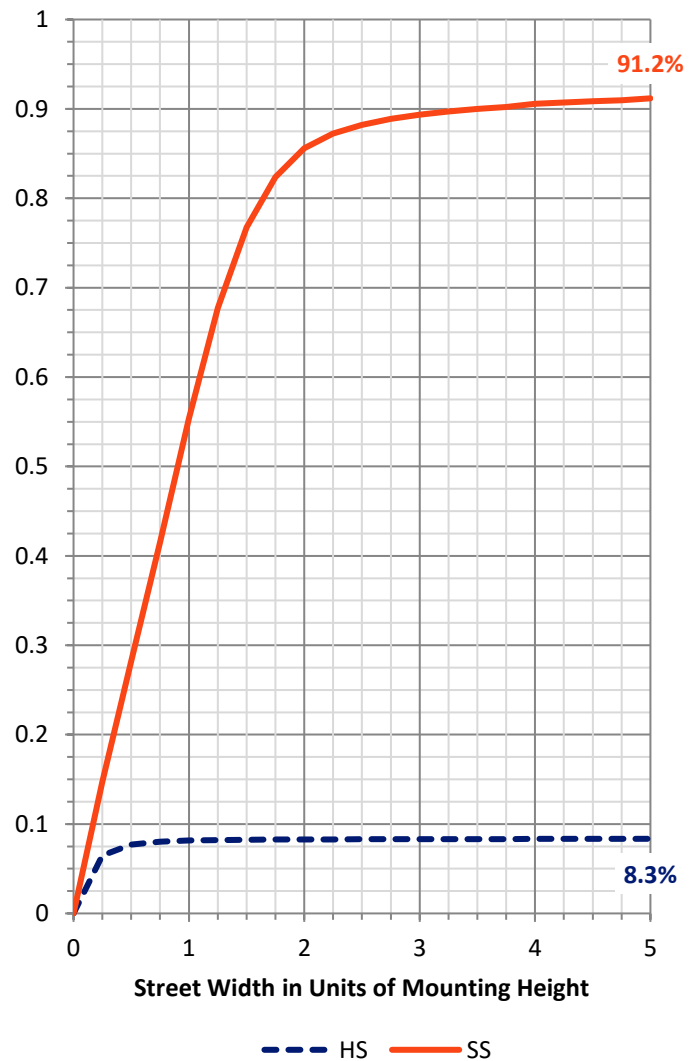
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	528.0	0.0	528.0
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	5741.1	0.0	5741.1
	% Fixture	91.6	0.0	91.6
Total	Lumens	6269.0	0.0	6269.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.6	1.9
10°-20°	245.5	3.9
20°-30°	345.2	5.5
30°-40°	504.6	8.0
40°-50°	836.7	13.3
50°-60°	1465.4	23.4
60°-70°	1890.4	30.2
70°-80°	777.6	12.4
80°-90°	85.0	1.4
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°	6269.0	100.0
0°-180°	6269.0	100.0

Coefficient of Utilization



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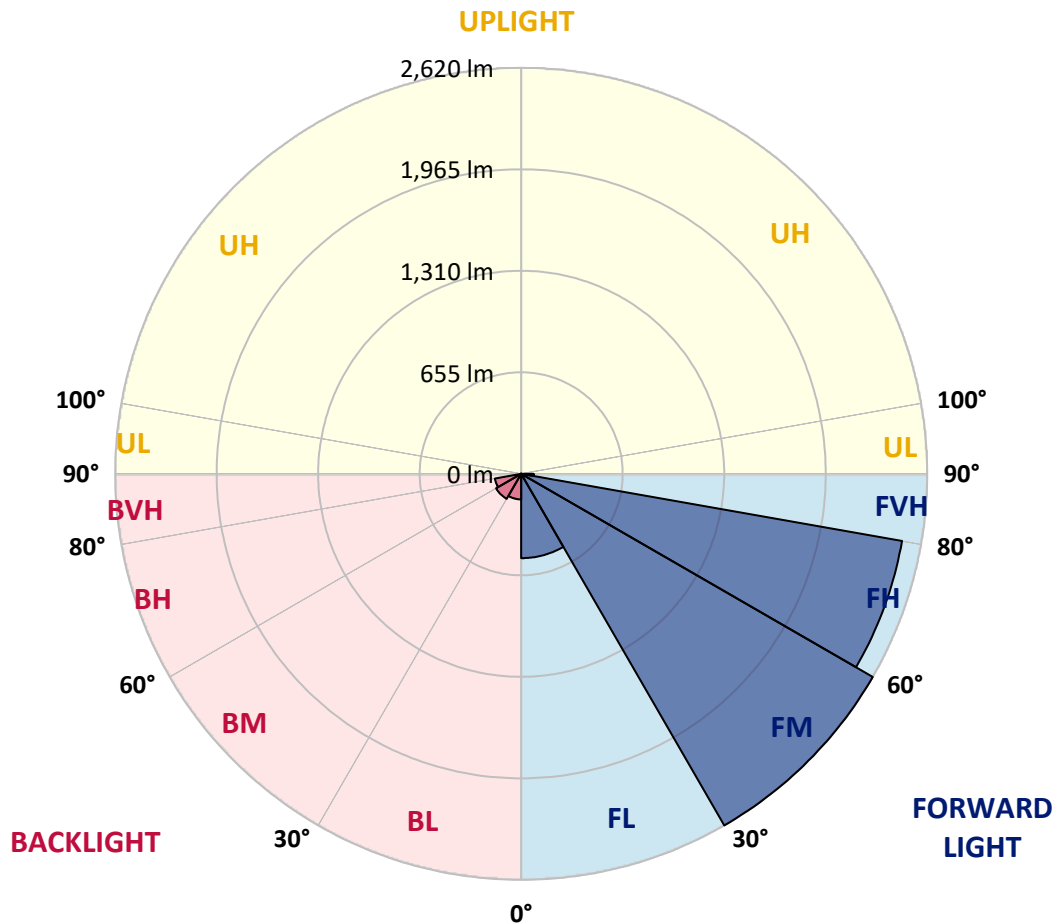
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	544.2	8.7			
FM	(30°-60°)	2620.1	41.8			
FH	(60°-80°)	2495.7	39.8			G2/5000
FVH	(80°-90°)	81.0	1.3			G1/100
BL	(0°-30°)	165.0	2.6	B1/500		
BM	(30°-60°)	186.7	3.0	B0/220		
BH	(60°-80°)	172.3	2.7	B1/500		G1/500
BVH	(80°-90°)	4.0	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-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1544.8	1544.8	1544.8	1544.8	1544.8	1544.8	1544.8	1544.8	1544.8	1544.8	1544.8
2.5°	1639.9	1656.9	1646.7	1639.9	1636.5	1619.5	1612.7	1585.6	1592.4	1565.2	1544.8
5°	1592.4	1595.8	1602.6	1609.4	1633.1	1626.3	1612.7	1592.4	1589.0	1558.4	1510.9
7.5°	1473.5	1476.9	1487.1	1514.3	1524.5	1534.7	1568.6	1575.4	1575.4	1521.1	1460.0
10°	1358.1	1351.3	1364.9	1378.5	1415.8	1460.0	1483.7	1514.3	1517.7	1493.9	1429.4
12.5°	1249.5	1242.7	1263.0	1283.4	1327.5	1371.7	1415.8	1463.4	1473.5	1480.3	1398.8
15°	1164.6	1171.4	1181.6	1205.3	1249.5	1307.2	1364.9	1415.8	1419.2	1463.4	1381.9
17.5°	1110.3	1110.3	1120.4	1144.2	1188.3	1246.1	1310.6	1378.5	1388.7	1456.6	1375.1
20°	1106.9	1100.1	1096.7	1106.9	1140.8	1184.9	1273.2	1361.5	1368.3	1449.8	1385.3
22.5°	1123.8	1113.6	1106.9	1100.1	1113.6	1151.0	1239.3	1334.3	1351.3	1449.8	1388.7
25°	1154.4	1151.0	1144.2	1127.2	1113.6	1134.0	1205.3	1320.8	1337.7	1453.2	1402.2
27.5°	1212.1	1205.3	1198.5	1171.4	1140.8	1127.2	1181.6	1300.4	1320.8	1466.8	1422.6
30°	1286.8	1286.8	1283.4	1256.2	1198.5	1147.6	1184.9	1286.8	1303.8	1480.3	1439.6
32.5°	1388.7	1388.7	1385.3	1364.9	1290.2	1205.3	1201.9	1293.6	1314.0	1507.5	1460.0
35°	1500.7	1490.5	1493.9	1487.1	1409.0	1286.8	1252.9	1330.9	1337.7	1548.2	1483.7
37.5°	1578.8	1599.2	1619.5	1629.7	1561.8	1405.6	1341.1	1381.9	1392.1	1616.1	1524.5
40°	1721.4	1728.2	1755.4	1785.9	1745.2	1558.4	1470.1	1473.5	1483.7	1687.4	1599.2
42.5°	1843.6	1840.2	1901.3	1948.9	1928.5	1758.7	1633.1	1616.1	1622.9	1826.7	1711.2
45°	1959.1	1976.0	2064.3	2173.0	2173.0	1996.4	1843.6	1802.9	1799.5	2033.8	1891.2
47.5°	2088.1	2122.0	2240.9	2414.0	2492.1	2288.4	2101.7	2050.7	2027.0	2291.8	2162.8
50°	2223.9	2254.5	2383.5	2594.0	2841.8	2723.0	2420.8	2359.7	2380.1	2604.2	2465.0
52.5°	2349.5	2359.7	2468.4	2675.5	3048.9	3307.0	2882.6	2797.7	2780.7	2987.8	2835.0
55°	2383.5	2400.5	2495.5	2678.9	3157.6	3745.0	3853.6	3324.0	3293.4	3340.9	3201.7
57.5°	2325.8	2349.5	2441.2	2594.0	3171.2	4057.3	4644.7	4016.6	3969.1	3687.3	3649.9
60°	2010.0	2043.9	2125.4	2325.8	2936.9	4233.9	5238.9	4889.2	4794.1	4121.8	4291.6
62.5°	1595.8	1572.0	1728.2	1982.8	2444.6	4003.0	5788.9	5917.9	5856.8	4814.5	5096.3
65°	977.8	981.2	1025.4	1320.8	1962.5	3293.4	6237.1	7147.0	7150.4	5819.5	5649.7
67.5°	682.4	675.7	702.8	879.4	1178.2	2675.5	6006.2	8107.9	8077.3	6322.0	5517.3
70°	529.7	519.5	516.1	645.1	828.4	1629.7	4977.5	7666.5	7629.2	5934.9	4546.3
72.5°	383.7	373.5	390.5	519.5	719.8	964.3	3544.7	5873.8	5819.5	4318.8	2767.1
75°	241.1	244.5	278.4	390.5	675.7	685.8	2081.3	3276.4	3290.0	2074.5	1130.6
77.5°	139.2	135.8	169.8	275.0	560.2	634.9	1066.1	1527.9	1432.8	696.0	329.3
80°	61.1	61.1	88.3	193.5	407.4	631.5	651.9	590.8	577.2	166.4	112.0
82.5°	27.2	27.2	40.7	112.0	271.6	505.9	550.0	376.9	339.5	64.5	64.5
85°	3.4	3.4	17.0	57.7	129.0	258.0	465.2	305.6	264.8	30.6	40.7
87.5°	0.0	0.0	6.8	17.0	37.3	135.8	271.6	183.3	159.6	13.6	17.0
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°	1544.8	1544.8	1544.8	1544.8	1544.8	1544.8	1544.8	1544.8	1544.8	1544.8	1544.8
2.5°	1527.9	1507.5	1470.1	1426.0	1371.7	1344.5	1303.8	1263.0	1249.5	1246.1	1239.3
5°	1493.9	1453.2	1368.3	1273.2	1168.0	1069.5	988.0	923.5	872.6	855.6	828.4
7.5°	1429.4	1385.3	1246.1	1089.9	933.7	780.9	645.1	556.8	505.9	492.3	485.5
10°	1381.9	1314.0	1120.4	906.5	685.8	526.3	397.2	315.8	271.6	251.2	251.2
12.5°	1344.5	1263.0	1001.6	730.0	492.3	329.3	234.3	176.6	159.6	156.2	152.8
15°	1320.8	1201.9	889.6	560.2	346.3	207.1	152.8	142.6	139.2	135.8	135.8
17.5°	1303.8	1147.6	777.5	441.4	234.3	146.0	132.4	129.0	125.6	125.6	125.6
20°	1293.6	1103.5	662.1	336.1	156.2	125.6	118.8	115.4	112.0	112.0	108.6
22.5°	1273.2	1059.3	563.6	244.5	125.6	112.0	105.3	101.9	95.1	95.1	95.1
25°	1269.8	1015.2	471.9	169.8	112.0	101.9	91.7	84.9	81.5	78.1	78.1
27.5°	1266.4	967.6	404.0	125.6	101.9	88.3	81.5	71.3	64.5	64.5	61.1
30°	1246.1	920.1	336.1	108.6	91.7	78.1	67.9	61.1	54.3	50.9	50.9
32.5°	1242.7	865.8	271.6	98.5	81.5	67.9	57.7	50.9	44.1	44.1	44.1
35°	1232.5	797.9	210.5	88.3	74.7	61.1	50.9	44.1	37.3	37.3	37.3
37.5°	1232.5	750.4	156.2	81.5	67.9	50.9	40.7	37.3	30.6	30.6	30.6
40°	1256.2	699.4	118.8	74.7	61.1	47.5	37.3	30.6	27.2	27.2	27.2
42.5°	1310.6	668.9	95.1	71.3	54.3	40.7	34.0	27.2	23.8	20.4	20.4
45°	1422.6	675.7	88.3	64.5	47.5	37.3	27.2	23.8	20.4	17.0	17.0
47.5°	1606.0	706.2	81.5	57.7	40.7	30.6	23.8	17.0	13.6	13.6	13.6
50°	1809.7	767.3	78.1	50.9	37.3	27.2	20.4	13.6	13.6	10.2	10.2
52.5°	2108.5	865.8	71.3	47.5	34.0	23.8	17.0	13.6	10.2	10.2	10.2
55°	2471.8	1035.6	64.5	44.1	27.2	20.4	13.6	10.2	6.8	6.8	6.8
57.5°	2892.8	1229.1	57.7	37.3	23.8	17.0	13.6	6.8	6.8	3.4	3.4
60°	3449.6	1493.9	50.9	34.0	20.4	13.6	10.2	6.8	3.4	3.4	3.4
62.5°	4199.9	1752.0	44.1	27.2	17.0	10.2	6.8	6.8	3.4	3.4	3.4
65°	4553.0	1826.7	37.3	23.8	13.6	10.2	6.8	3.4	3.4	0.0	0.0
67.5°	4376.5	1670.5	30.6	20.4	13.6	10.2	6.8	3.4	0.0	0.0	0.0
70°	3446.2	1256.2	30.6	17.0	13.6	10.2	6.8	3.4	0.0	0.0	0.0
72.5°	1979.4	760.5	27.2	17.0	10.2	10.2	6.8	3.4	3.4	0.0	0.0
75°	784.3	244.5	23.8	13.6	10.2	10.2	10.2	6.8	3.4	0.0	0.0
77.5°	210.5	91.7	20.4	13.6	13.6	13.6	13.6	6.8	3.4	0.0	0.0
80°	67.9	34.0	20.4	13.6	13.6	17.0	13.6	6.8	3.4	0.0	0.0
82.5°	50.9	23.8	20.4	13.6	13.6	13.6	13.6	6.8	3.4	0.0	0.0
85°	34.0	10.2	6.8	6.8	6.8	6.8	6.8	3.4	3.4	3.4	0.0
87.5°	17.0	6.8	3.4	3.4	3.4	3.4	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)