

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: P534619

Luminaire Tested: **GALN-SA8A-AMB-U-SL2-HSS**

Issue Date: 6/10/2021

Test Information

Test Method: LM-79-08
Report Number: P534619
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-067-5)
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-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) NARROW BAND AMBER, 500mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6259 lumens
Efficiency: N/A
Efficacy: 39.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

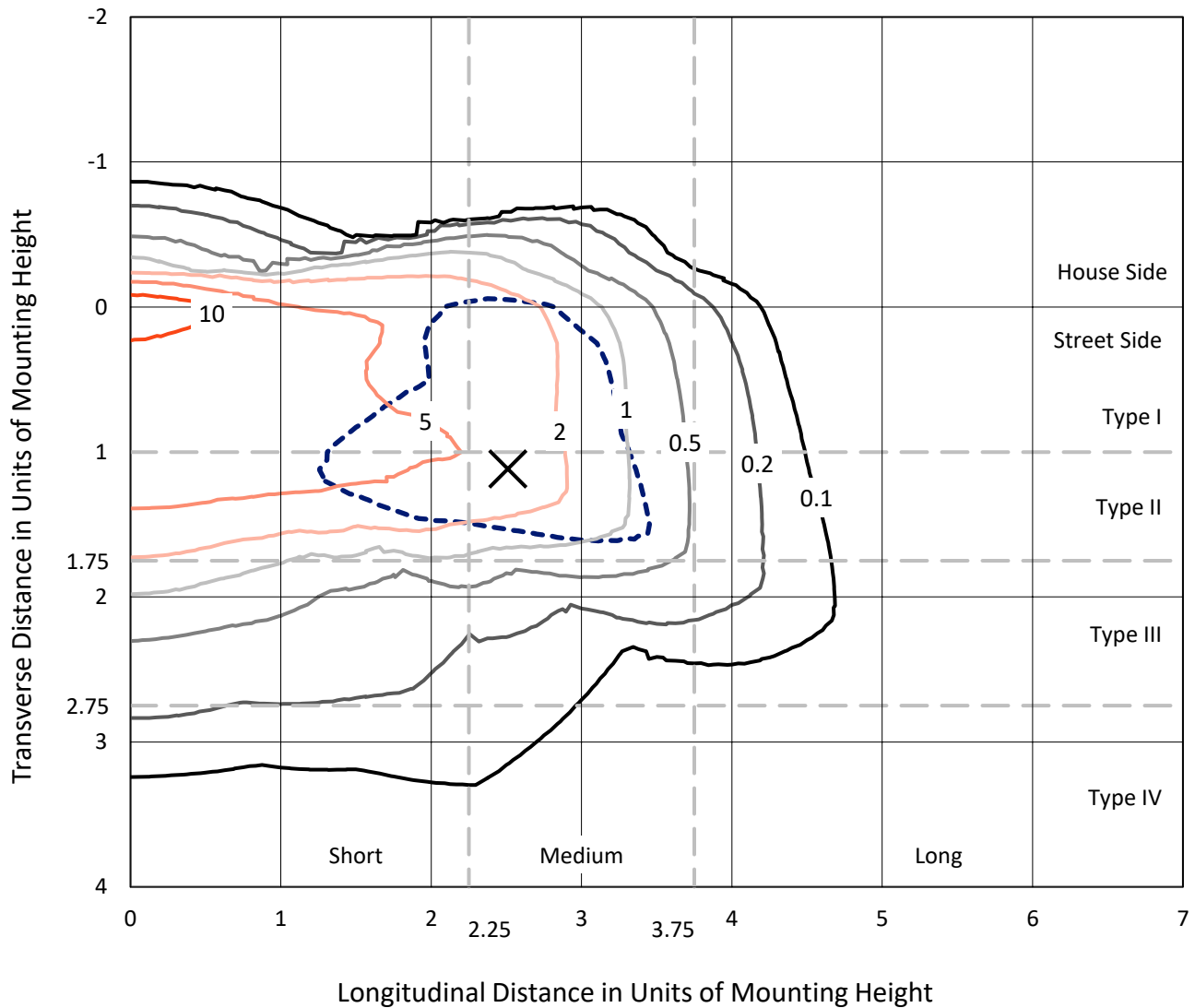
Input Watts (W): 158.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

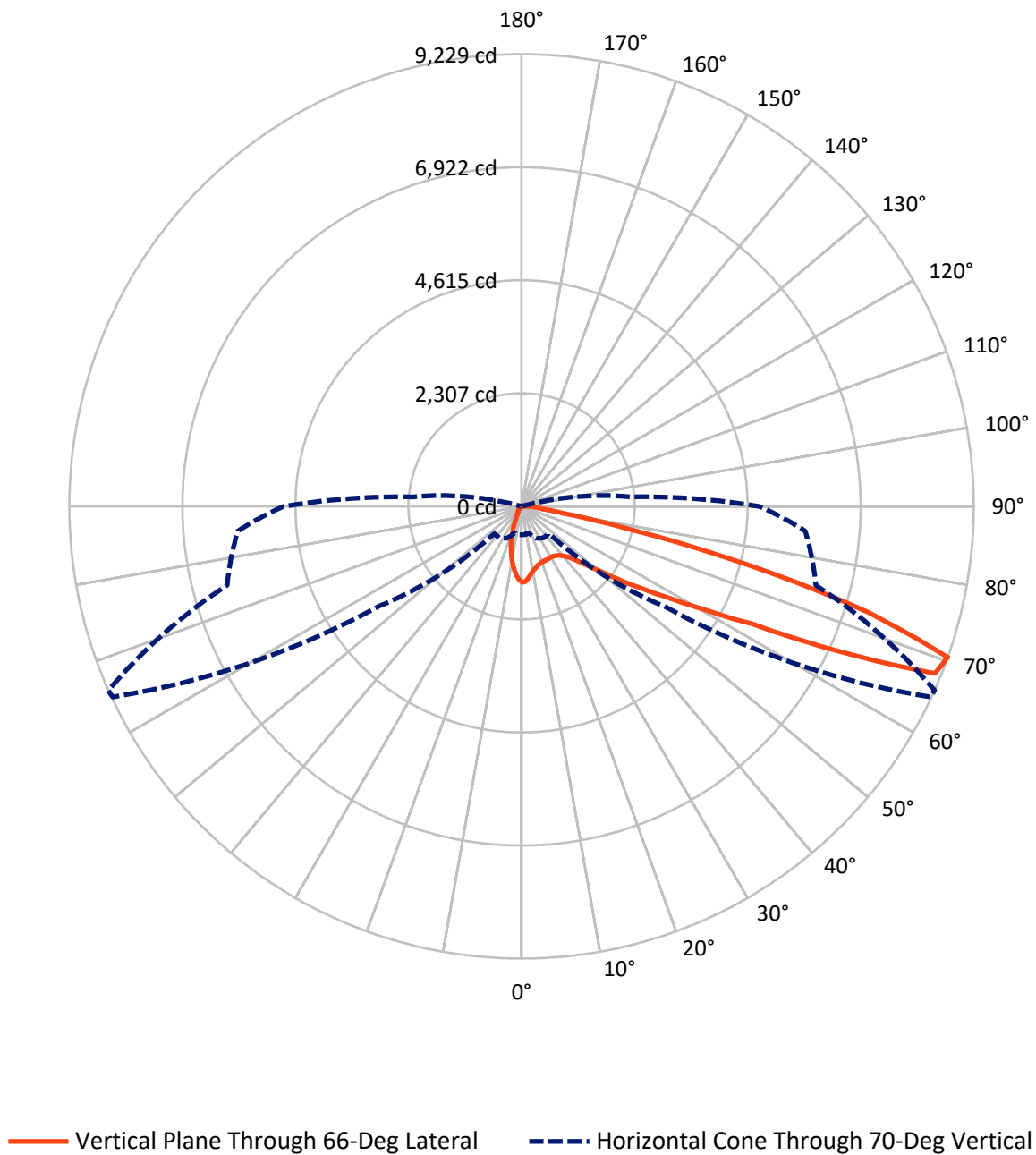
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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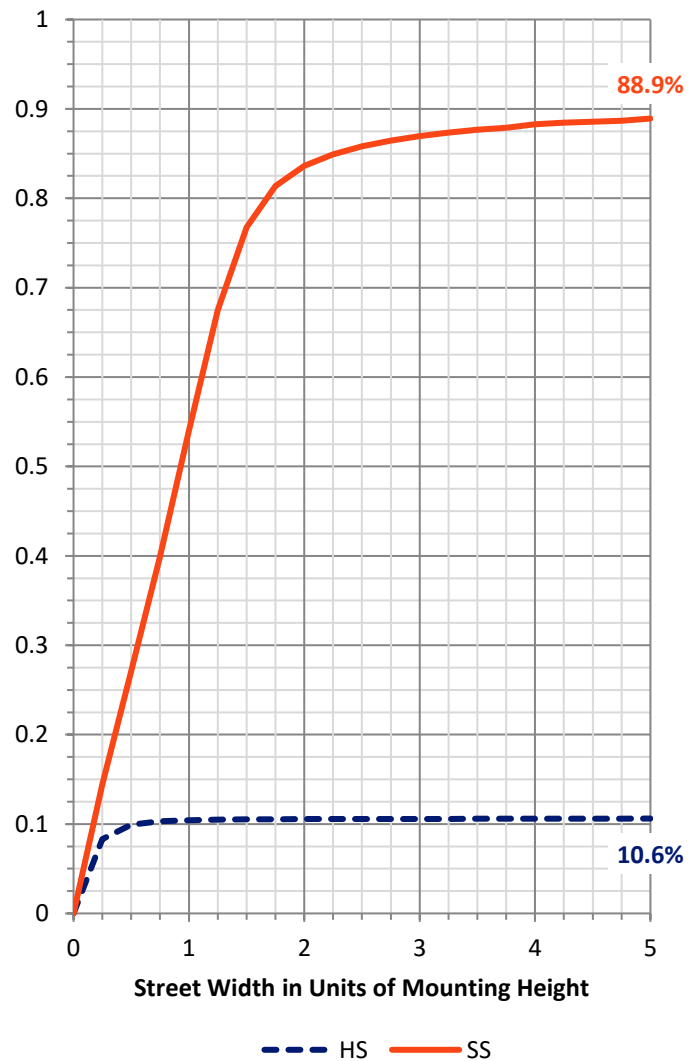
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	670.6	0.0	670.6
	% Fixture	10.7	0.0	10.7
Street Side	Lumens	5588.4	0.0	5588.4
	% Fixture	89.3	0.0	89.3
Total	Lumens	6259.0	0.0	6259.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.3	1.9
10°-20°	242.8	3.9
20°-30°	346.6	5.5
30°-40°	505.8	8.1
40°-50°	822.3	13.1
50°-60°	1418.3	22.7
60°-70°	1807.3	28.9
70°-80°	904.4	14.4
80°-90°	93.1	1.5
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°	6259.0	100.0
0°-180°	6259.0	100.0

Coefficient of Utilization



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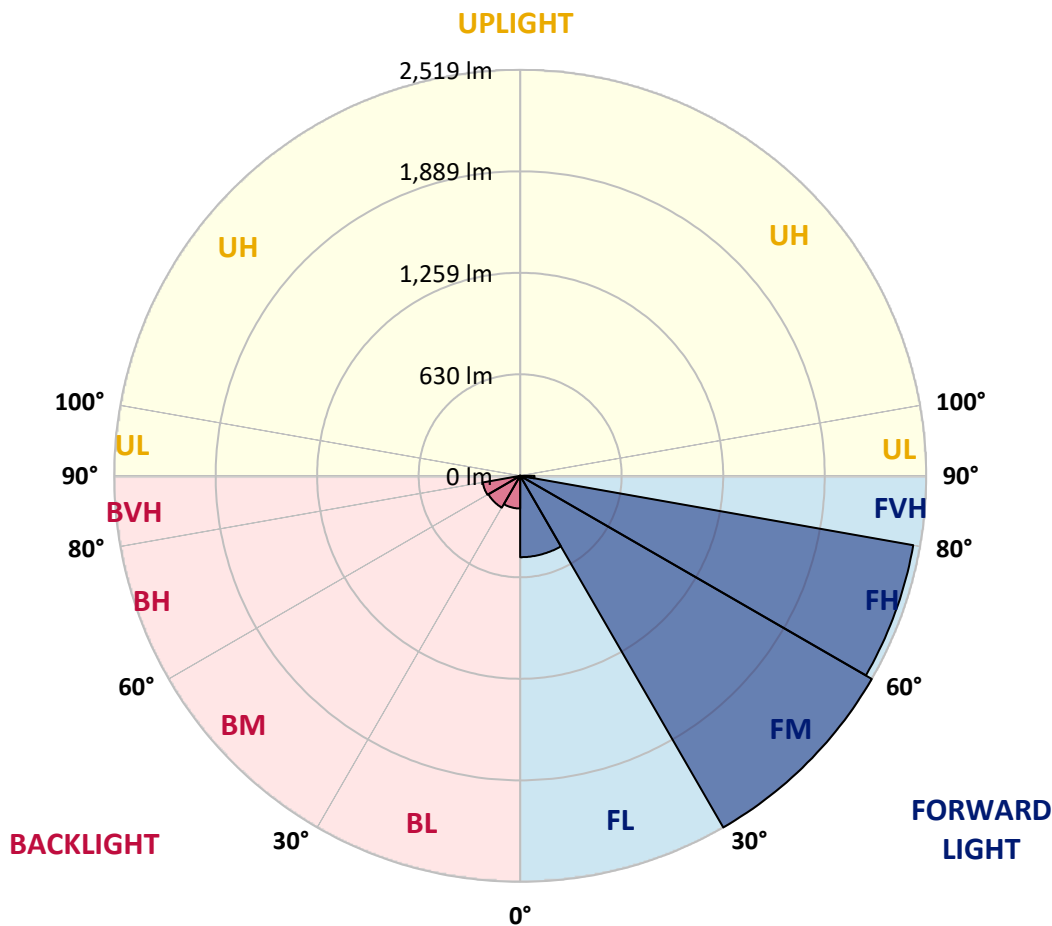
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	505.0	8.1			
FM	(30°-60°)	2518.6	40.2			
FH	(60°-80°)	2476.1	39.6			G2/5000
FVH	(80°-90°)	88.7	1.4			G1/100
BL	(0°-30°)	202.8	3.2	B1/500		
BM	(30°-60°)	227.8	3.6	B1/1000		
BH	(60°-80°)	235.5	3.8	B1/500		G1/500
BVH	(80°-90°)	4.4	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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1552.3	1552.3	1552.3	1552.3	1552.3	1552.3	1552.3	1552.3	1552.3	1552.3	1552.3
2.5°	1450.4	1464.0	1450.4	1467.4	1470.8	1487.8	1515.0	1532.0	1535.4	1548.9	1552.3
5°	1338.3	1338.3	1345.1	1358.7	1375.7	1396.1	1419.9	1443.6	1470.8	1504.8	1535.4
7.5°	1250.0	1236.4	1239.8	1250.0	1280.6	1307.8	1341.7	1382.5	1389.3	1450.4	1508.2
10°	1154.9	1151.5	1158.3	1182.1	1202.5	1226.3	1267.0	1318.0	1324.8	1392.7	1494.6
12.5°	1083.6	1080.2	1090.4	1097.2	1131.1	1165.1	1212.7	1273.8	1290.8	1358.7	1487.8
15°	1029.2	1029.2	1036.0	1053.0	1080.2	1120.9	1168.5	1239.8	1246.6	1334.9	1501.4
17.5°	1015.6	1005.5	1005.5	1015.6	1039.4	1080.2	1131.1	1219.5	1226.3	1334.9	1518.4
20°	1019.0	1012.3	1005.5	998.7	1019.0	1066.6	1114.2	1199.1	1209.3	1334.9	1548.9
22.5°	1039.4	1036.0	1025.8	1015.6	1019.0	1049.6	1107.4	1188.9	1205.9	1331.6	1572.7
25°	1093.8	1087.0	1076.8	1049.6	1032.6	1049.6	1107.4	1188.9	1205.9	1328.2	1593.1
27.5°	1154.9	1144.7	1144.7	1120.9	1073.4	1063.2	1110.8	1192.3	1199.1	1328.2	1616.9
30°	1253.4	1243.2	1233.0	1205.9	1151.5	1104.0	1131.1	1199.1	1199.1	1331.6	1623.7
32.5°	1365.5	1365.5	1351.9	1328.2	1246.6	1154.9	1151.5	1202.5	1205.9	1318.0	1623.7
35°	1498.0	1498.0	1508.2	1481.0	1375.7	1236.4	1199.1	1226.3	1233.0	1331.6	1610.1
37.5°	1610.1	1610.1	1633.9	1654.2	1535.4	1348.5	1267.0	1270.4	1267.0	1355.3	1620.3
40°	1739.2	1742.6	1779.9	1820.7	1746.0	1494.6	1368.9	1334.9	1331.6	1385.9	1654.2
42.5°	1881.8	1888.6	1953.2	2014.3	1953.2	1691.6	1511.6	1426.7	1416.5	1470.8	1722.2
45°	2004.1	2027.9	2126.4	2221.5	2211.3	1936.2	1695.0	1582.9	1576.1	1603.3	1830.9
47.5°	2231.7	2238.5	2340.4	2469.5	2496.7	2245.3	1929.4	1803.7	1790.1	1790.1	2007.5
50°	2469.5	2493.3	2578.2	2768.4	2900.9	2598.6	2228.3	2092.4	2082.2	2044.9	2262.3
52.5°	2588.4	2605.4	2717.5	2921.3	3301.7	3135.3	2591.8	2496.7	2469.5	2421.9	2578.2
55°	2486.5	2496.7	2588.4	2887.3	3464.8	3896.1	3142.1	2931.5	2934.8	2836.3	3060.5
57.5°	2068.7	2078.9	2157.0	2486.5	3356.1	4405.7	3953.9	3556.5	3498.7	3274.5	3491.9
60°	1545.6	1535.4	1515.0	1756.2	2697.1	4487.2	5261.7	4327.5	4263.0	3675.4	3974.3
62.5°	1158.3	1144.7	1117.6	1171.9	1599.9	3950.5	6100.7	5404.3	5285.4	4144.1	4534.7
65°	900.2	883.2	886.6	913.7	998.7	2551.0	6375.8	7452.6	7143.5	4877.8	5234.5
67.5°	713.3	706.5	693.0	815.2	805.0	1239.8	5628.5	9123.8	9100.1	5873.1	6131.3
70°	577.5	580.9	560.5	720.1	784.7	784.7	3549.7	9208.8	9229.1	6219.6	5812.0
72.5°	417.8	414.4	424.6	591.0	777.9	747.3	1555.7	7357.5	7405.1	5472.3	4534.7
75°	227.6	237.8	278.5	428.0	774.5	730.3	764.3	4758.9	4809.9	3349.3	2207.9
77.5°	115.5	118.9	149.5	261.6	625.0	709.9	665.8	2265.7	2231.7	1287.4	584.3
80°	54.3	54.3	71.3	156.3	407.6	720.1	611.4	893.4	859.4	261.6	135.9
82.5°	20.4	20.4	34.0	91.7	227.6	604.6	546.9	472.2	438.2	81.5	84.9
85°	3.4	3.4	17.0	51.0	101.9	292.1	451.8	373.6	332.9	37.4	47.6
87.5°	0.0	0.0	6.8	13.6	30.6	139.3	227.6	224.2	193.6	17.0	23.8
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°	1552.3	1552.3	1552.3	1552.3	1552.3	1552.3	1552.3	1552.3	1552.3	1552.3	1552.3
2.5°	1538.8	1528.6	1504.8	1491.2	1457.2	1430.1	1406.3	1368.9	1345.1	1355.3	1362.1
5°	1528.6	1508.2	1460.6	1389.3	1318.0	1236.4	1171.9	1097.2	1076.8	1056.4	1073.4
7.5°	1508.2	1474.2	1382.5	1263.6	1127.7	1015.6	900.2	808.4	747.3	703.1	696.3
10°	1491.2	1443.6	1290.8	1127.7	930.7	757.5	584.3	462.0	373.6	339.7	326.1
12.5°	1474.2	1416.5	1209.3	971.5	720.1	475.6	295.5	203.8	169.8	166.4	163.0
15°	1484.4	1399.5	1127.7	822.0	506.1	258.2	163.0	146.1	146.1	146.1	142.7
17.5°	1498.0	1372.3	1053.0	676.0	295.5	152.9	139.3	132.5	129.1	129.1	129.1
20°	1508.2	1345.1	961.3	506.1	169.8	132.5	125.7	118.9	112.1	112.1	112.1
22.5°	1498.0	1328.2	856.0	339.7	132.5	115.5	108.7	101.9	98.5	95.1	91.7
25°	1504.8	1297.6	754.1	210.6	118.9	105.3	95.1	84.9	78.1	74.7	74.7
27.5°	1494.6	1267.0	642.0	142.7	105.3	91.7	78.1	71.3	61.1	57.7	57.7
30°	1481.0	1236.4	526.5	115.5	95.1	81.5	67.9	57.7	51.0	47.6	47.6
32.5°	1467.4	1185.5	407.6	105.3	88.3	71.3	57.7	47.6	44.2	40.8	40.8
35°	1433.5	1131.1	295.5	98.5	78.1	61.1	47.6	40.8	37.4	34.0	34.0
37.5°	1419.9	1093.8	203.8	88.3	71.3	54.3	40.8	34.0	30.6	30.6	30.6
40°	1426.7	1036.0	142.7	81.5	61.1	47.6	37.4	30.6	27.2	23.8	23.8
42.5°	1447.0	1019.0	115.5	78.1	54.3	40.8	30.6	23.8	20.4	20.4	20.4
45°	1515.0	1022.4	105.3	71.3	47.6	34.0	27.2	20.4	17.0	17.0	17.0
47.5°	1637.3	1049.6	98.5	64.5	40.8	30.6	23.8	17.0	13.6	13.6	13.6
50°	1813.9	1117.6	95.1	57.7	37.4	27.2	20.4	13.6	10.2	10.2	10.2
52.5°	2092.4	1236.4	88.3	51.0	30.6	23.8	13.6	10.2	10.2	6.8	6.8
55°	2466.1	1406.3	81.5	44.2	27.2	17.0	13.6	10.2	6.8	6.8	6.8
57.5°	2877.1	1606.7	71.3	37.4	23.8	17.0	10.2	6.8	6.8	3.4	3.4
60°	3359.4	1909.0	61.1	30.6	20.4	13.6	10.2	6.8	3.4	3.4	3.4
62.5°	3960.7	2286.1	51.0	27.2	17.0	10.2	6.8	3.4	3.4	3.4	3.4
65°	4806.5	2727.6	40.8	20.4	13.6	6.8	6.8	3.4	3.4	0.0	0.0
67.5°	5373.8	2782.0	37.4	20.4	10.2	6.8	6.8	3.4	0.0	0.0	0.0
70°	4857.4	2224.9	30.6	17.0	10.2	6.8	6.8	3.4	0.0	0.0	0.0
72.5°	3458.0	1280.6	27.2	13.6	10.2	6.8	6.8	3.4	3.4	0.0	0.0
75°	1525.2	360.1	27.2	13.6	10.2	10.2	10.2	6.8	3.4	0.0	0.0
77.5°	366.9	112.1	23.8	13.6	13.6	13.6	13.6	6.8	3.4	0.0	0.0
80°	91.7	40.8	20.4	13.6	13.6	13.6	13.6	6.8	3.4	3.4	3.4
82.5°	67.9	30.6	20.4	17.0	13.6	10.2	10.2	6.8	3.4	3.4	3.4
85°	40.8	13.6	6.8	6.8	6.8	6.8	6.8	3.4	3.4	3.4	3.4
87.5°	23.8	6.8	6.8	3.4	3.4	3.4	0.0	0.0	0.0	3.4	3.4
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)