

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: P191929

Luminaire Tested: **GLEON-AF-01-LED-E1-SL3-7050-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191929
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-01-LED-E1-SL3-7050-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K, 1050mA LIGHTSQUARE 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: 5324 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 59
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: 25 FT

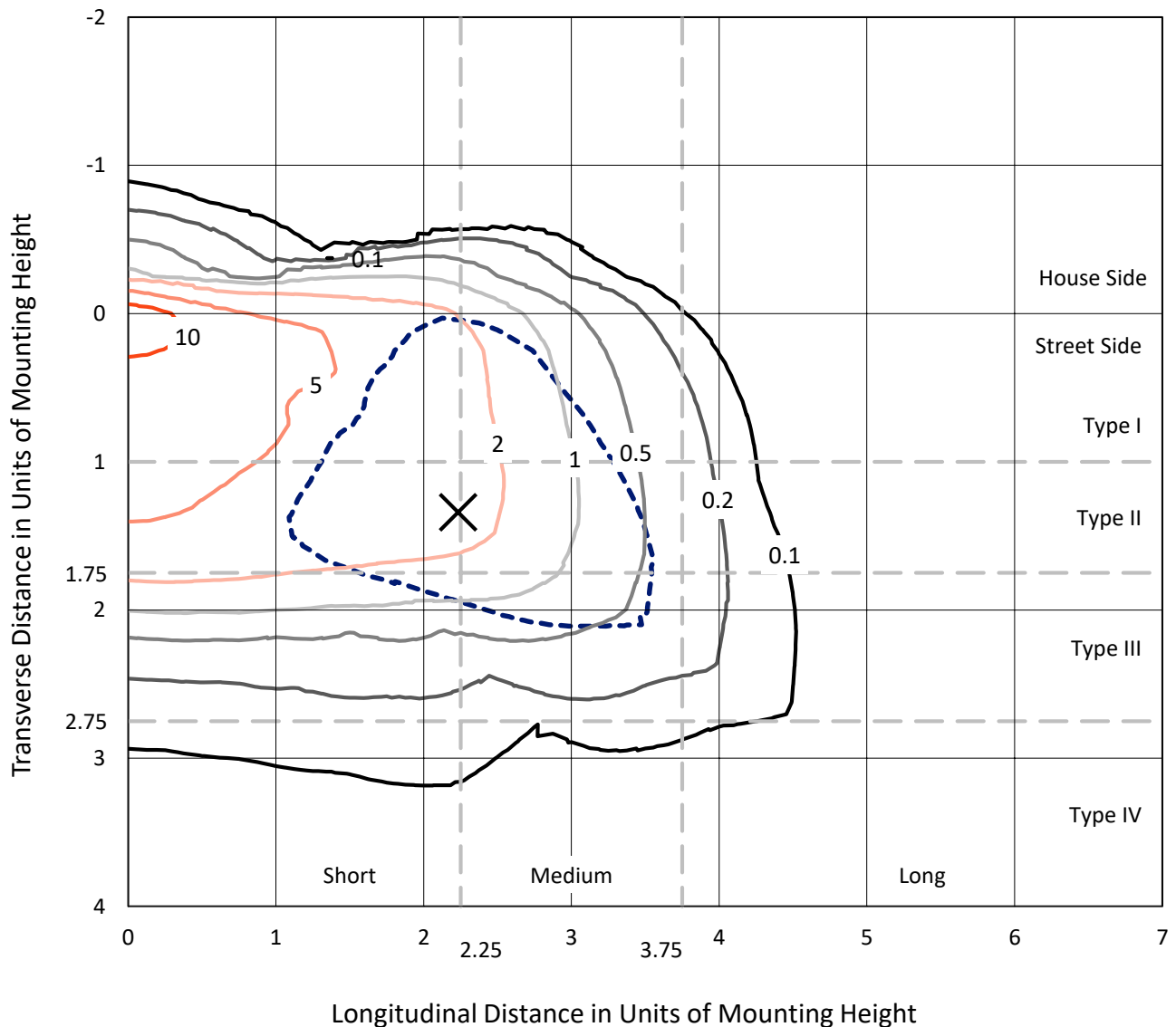


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

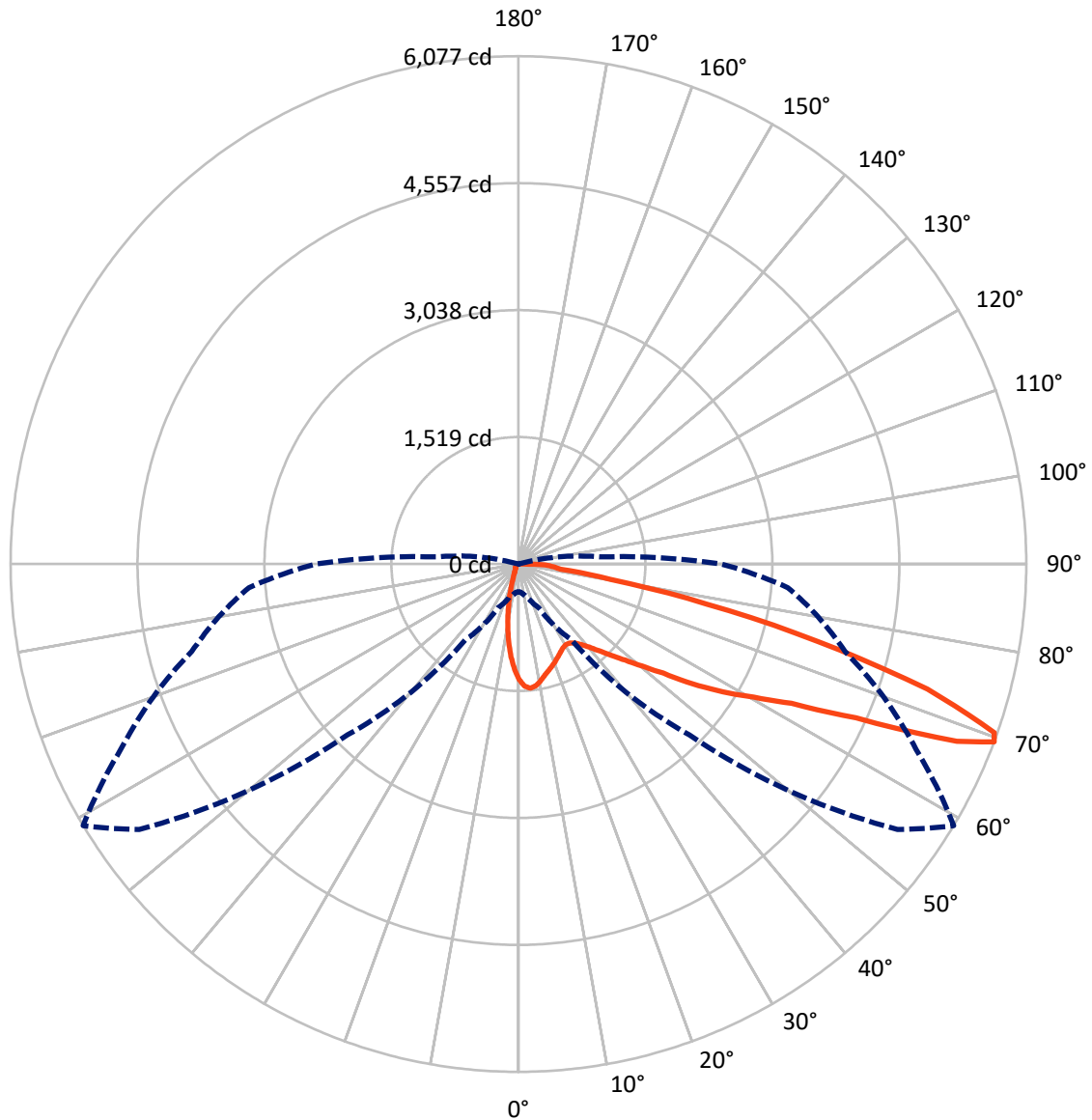


Based on 10 foot mounting height. Maximum calculated value = 13.9 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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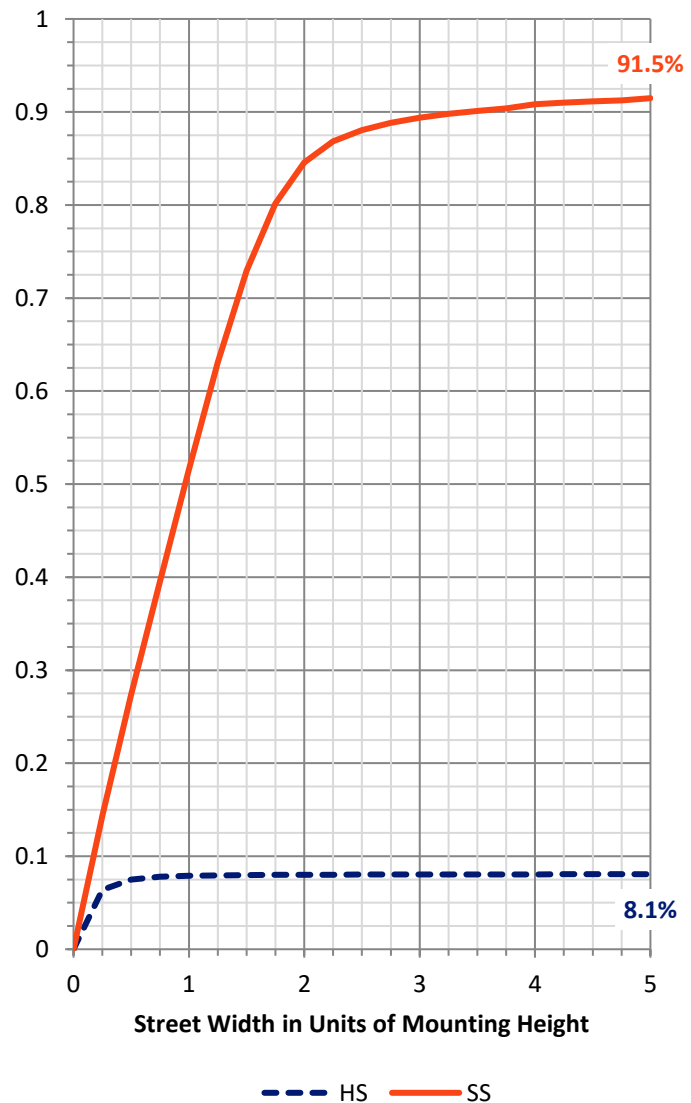
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	433.5	0.0	433.5
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	4890.4	0.0	4890.4
	% Fixture	91.9	0.0	91.9
Total	Lumens	5324.0	0.0	5324.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.5	2.1
10°-20°	232.4	4.4
20°-30°	312.8	5.9
30°-40°	454.1	8.5
40°-50°	756.1	14.2
50°-60°	1179.5	22.2
60°-70°	1459.5	27.4
70°-80°	739.7	13.9
80°-90°	77.4	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°	5324.0	100.0
0°-180°	5324.0	100.0



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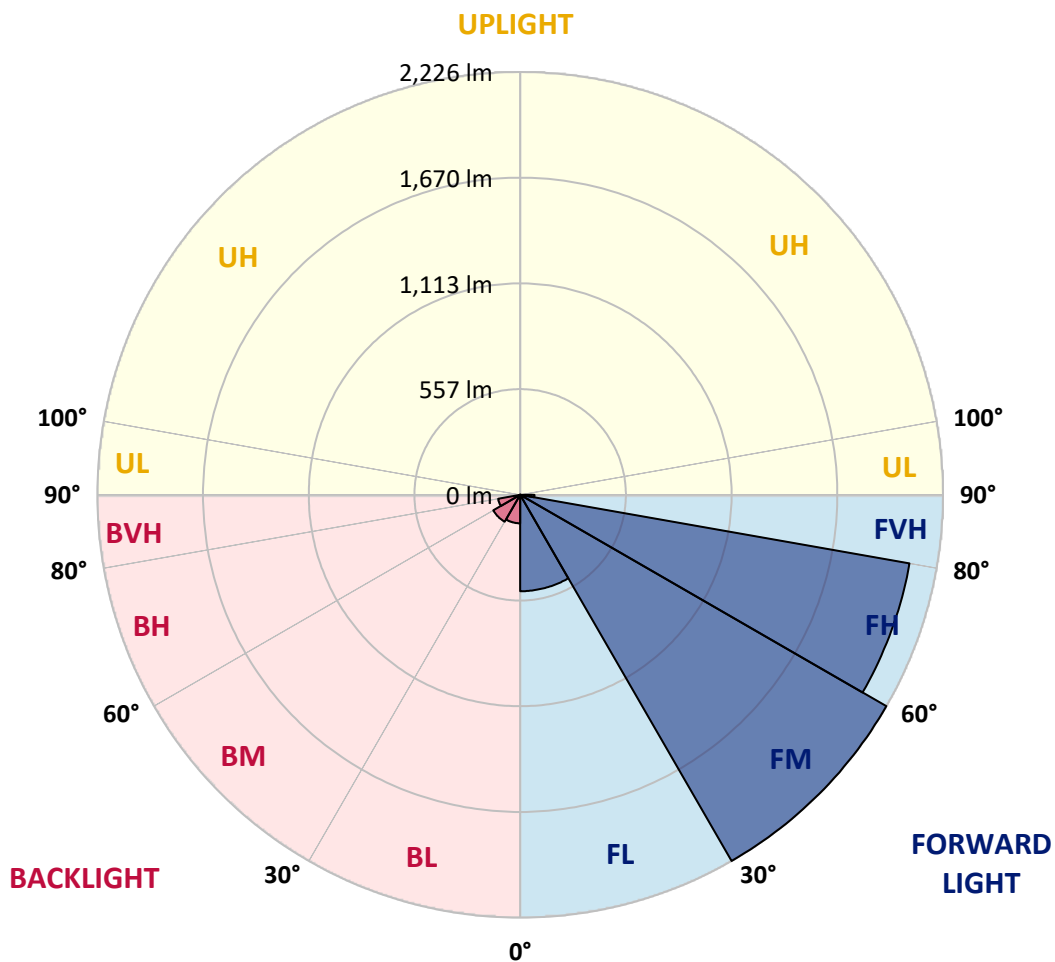
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	507.6	9.5			
FM	(30°-60°)	2226.3	41.8			
FH	(60°-80°)	2081.5	39.1			G2/5000
FVH	(80°-90°)	75.0	1.4			G1/100
BL	(0°-30°)	150.1	2.8	B1/500		
BM	(30°-60°)	163.4	3.1	B0/220		
BH	(60°-80°)	117.7	2.2	B1/500		G1/500
BVH	(80°-90°)	2.4	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°	59°	65°	75°	85°
0°	1385.8	1385.8	1385.8	1385.8	1385.8	1385.8	1385.8	1385.8	1385.8	1385.8	1385.8
2.5°	1518.8	1518.2	1511.6	1508.6	1503.2	1491.7	1474.0	1464.6	1449.6	1423.4	1388.2
5°	1505.0	1512.2	1516.1	1516.4	1520.3	1516.1	1500.2	1492.3	1471.6	1429.4	1366.2
7.5°	1411.1	1413.8	1424.9	1434.5	1453.2	1471.0	1476.7	1473.4	1461.0	1415.9	1331.9
10°	1310.5	1313.2	1326.5	1339.1	1364.4	1391.8	1420.7	1426.7	1431.8	1396.6	1298.8
12.5°	1223.8	1226.5	1240.1	1256.6	1286.1	1319.8	1364.7	1374.6	1397.2	1378.2	1272.3
15°	1149.1	1150.3	1163.6	1184.1	1219.3	1262.6	1313.5	1329.5	1364.1	1365.3	1249.1
17.5°	1085.6	1088.6	1096.7	1116.3	1154.9	1208.4	1267.7	1290.6	1331.3	1354.5	1226.5
20°	1046.8	1049.8	1049.5	1060.3	1094.9	1152.1	1222.0	1249.4	1298.8	1343.3	1206.3
22.5°	1039.2	1039.2	1031.4	1029.9	1050.4	1098.3	1174.4	1207.8	1269.6	1338.5	1192.2
25°	1066.0	1064.8	1045.3	1029.3	1030.2	1058.8	1128.4	1168.1	1244.9	1341.8	1184.7
27.5°	1122.6	1121.1	1096.4	1066.0	1041.7	1041.4	1093.4	1136.2	1225.3	1357.5	1187.7
30°	1200.9	1200.3	1173.5	1135.3	1091.0	1050.4	1081.4	1120.2	1212.7	1385.8	1194.6
32.5°	1286.4	1285.5	1265.3	1225.0	1169.0	1091.0	1094.0	1126.6	1216.3	1423.4	1211.5
35°	1377.0	1375.5	1366.8	1331.6	1269.9	1166.0	1135.6	1160.9	1239.1	1479.7	1244.6
37.5°	1475.2	1476.7	1483.0	1449.3	1384.6	1271.1	1205.1	1222.3	1285.2	1556.2	1298.5
40°	1620.0	1619.7	1621.8	1577.5	1515.2	1399.6	1302.4	1307.8	1362.3	1657.6	1380.3
42.5°	1882.8	1864.4	1808.7	1718.4	1655.8	1546.5	1424.9	1419.2	1456.5	1783.2	1495.0
45°	2235.9	2196.8	2052.3	1879.2	1799.1	1712.1	1575.7	1557.4	1581.1	1934.0	1636.5
47.5°	2539.7	2499.1	2294.7	2046.6	1951.1	1869.3	1752.5	1719.3	1727.2	2102.9	1816.0
50°	2643.0	2623.1	2444.6	2192.3	2098.4	2067.1	1957.5	1917.1	1906.0	2298.3	2024.0
52.5°	2607.2	2605.6	2486.7	2286.8	2233.2	2271.8	2215.5	2168.8	2127.9	2504.2	2235.6
55°	2549.6	2557.2	2503.9	2369.6	2367.8	2458.7	2568.3	2529.5	2410.9	2727.9	2418.1
57.5°	2391.0	2423.2	2494.3	2526.2	2600.2	2693.3	2862.1	2885.0	2744.7	2899.2	2569.5
60°	1940.0	2010.8	2243.2	2548.7	2899.8	3131.6	3216.8	3236.4	3018.7	3041.6	2773.9
62.5°	1377.0	1449.3	1744.0	2260.9	2904.3	3707.5	3745.1	3668.4	3320.4	3252.6	3126.5
65°	731.0	786.7	1027.5	1632.0	2518.0	3841.2	4669.1	4440.3	3852.6	3667.8	3582.0
67.5°	373.9	390.8	486.5	798.7	1731.1	3411.9	5497.3	5658.4	4769.9	4079.6	3560.0
69°	330.9	340.8	404.3	577.4	1108.5	2889.8	5537.6	6076.5	5250.1	4045.3	3235.2
70°	320.3	329.1	386.9	522.6	866.4	2423.5	5383.2	6039.8	5373.0	3914.6	2992.5
72.5°	271.9	279.4	344.4	461.8	704.2	1203.0	4372.8	5118.0	4821.4	3261.0	2166.1
75°	181.8	206.5	330.6	432.9	655.1	683.4	2882.9	3698.5	3435.7	2199.5	1128.4
77.5°	43.7	47.0	93.3	344.4	599.1	601.5	1482.7	2299.2	1875.3	784.0	266.7
80°	23.5	22.6	26.2	68.3	557.9	564.5	667.4	1116.0	669.5	130.1	87.9
82.5°	16.6	15.7	16.9	28.6	175.5	514.2	482.9	505.2	277.6	50.0	39.4
85°	6.0	5.7	9.3	25.9	55.1	295.6	496.1	416.7	224.9	22.9	28.9
87.5°	2.1	1.8	3.6	14.1	16.9	125.8	306.2	314.9	88.5	13.8	13.5
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°	1385.8	1385.8	1385.8	1385.8	1385.8	1385.8	1385.8	1385.8	1385.8	1385.8	1385.8
2.5°	1373.4	1354.8	1320.4	1285.2	1252.7	1213.6	1194.0	1174.7	1166.6	1163.6	1149.4
5°	1333.7	1302.1	1229.2	1156.1	1088.6	1017.0	969.7	931.8	909.5	898.7	881.5
7.5°	1282.8	1231.0	1120.5	1007.6	902.6	799.0	722.2	663.2	622.6	603.0	585.3
10°	1233.4	1164.5	1007.3	853.5	710.8	573.5	467.5	390.8	341.7	319.1	304.7
12.5°	1189.2	1099.8	898.1	703.3	524.1	363.4	255.6	194.5	164.1	153.5	148.4
15°	1149.7	1040.2	794.8	560.6	354.9	207.7	139.7	118.9	114.1	114.1	113.5
17.5°	1112.4	981.7	695.1	426.6	222.8	127.0	106.3	103.6	103.6	104.8	104.8
20°	1076.6	926.1	598.8	306.2	140.3	100.9	96.0	95.4	96.0	97.5	97.5
22.5°	1045.9	875.5	508.8	210.1	104.2	90.9	88.5	87.6	87.9	88.8	89.4
25°	1023.0	832.7	423.9	142.4	89.7	82.8	80.1	78.6	77.4	77.4	78.0
27.5°	1008.5	796.6	341.7	103.6	80.7	75.3	71.0	68.6	65.9	64.4	65.0
30°	998.0	762.3	264.6	84.6	72.3	66.8	61.4	57.5	53.6	51.8	52.4
32.5°	994.1	734.6	197.8	74.7	64.7	58.7	52.1	47.0	42.8	41.2	41.5
35°	1004.6	712.6	144.8	67.4	58.7	51.2	43.7	37.9	34.6	33.7	34.0
37.5°	1032.3	700.9	108.4	61.4	53.3	44.9	36.4	31.0	28.9	28.9	29.2
40°	1084.7	700.6	87.0	57.2	48.5	38.8	30.1	26.2	25.0	25.6	25.9
42.5°	1161.2	716.5	75.9	53.3	44.3	33.1	25.0	22.3	22.0	22.6	22.9
45°	1265.6	745.7	69.8	50.0	39.7	27.7	21.1	19.3	19.3	20.2	20.5
47.5°	1393.6	788.5	64.7	46.7	35.2	23.2	18.1	16.9	17.2	18.1	18.4
50°	1547.7	842.4	59.6	43.1	31.9	19.3	15.7	14.8	15.1	16.3	16.6
52.5°	1723.2	914.9	55.4	39.7	27.7	16.0	13.2	12.6	13.2	14.5	14.8
55°	1873.8	979.9	50.3	37.0	22.3	13.2	10.8	10.8	11.4	12.9	13.2
57.5°	2018.6	1048.0	45.8	31.9	17.5	10.5	9.0	9.3	10.2	11.7	12.0
60°	2231.1	1163.3	40.3	26.8	13.2	8.4	7.5	7.8	9.0	10.5	10.8
62.5°	2592.1	1338.8	34.9	22.3	10.2	6.6	6.0	6.6	8.1	9.9	10.2
65°	2917.8	1410.1	28.6	18.7	7.8	5.1	5.1	6.0	7.8	9.6	9.9
67.5°	2736.3	1187.1	22.3	14.8	6.0	3.9	4.2	5.7	7.5	9.6	9.9
69°	2419.9	970.6	19.0	11.7	5.1	3.6	3.9	5.7	7.5	9.3	9.6
70°	2173.3	819.5	16.9	9.9	4.5	3.6	3.9	5.4	7.5	9.3	9.6
72.5°	1455.6	442.6	13.5	7.2	4.2	3.3	3.3	5.4	7.2	9.0	9.3
75°	625.6	122.2	10.8	5.1	3.6	3.0	3.0	5.1	6.9	8.7	9.3
77.5°	114.4	31.0	8.7	4.5	3.6	3.0	2.7	4.8	6.6	8.4	8.7
80°	45.5	15.4	6.9	3.9	3.3	2.7	2.4	4.5	6.3	8.1	8.4
82.5°	27.4	8.7	5.7	3.6	3.3	2.4	2.1	3.9	6.0	7.8	8.1
85°	22.3	6.0	4.5	3.6	3.0	2.4	1.8	3.6	5.4	7.5	7.8
87.5°	10.8	4.2	4.2	3.3	3.0	2.4	1.8	3.3	5.1	7.2	7.5
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)