

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: P300967

Luminaire Tested: **GLNA-AF-02-LED-E1-SL4-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300967
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-02-LED-E1-SL4-7030-600
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V
Square Wide OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7348 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

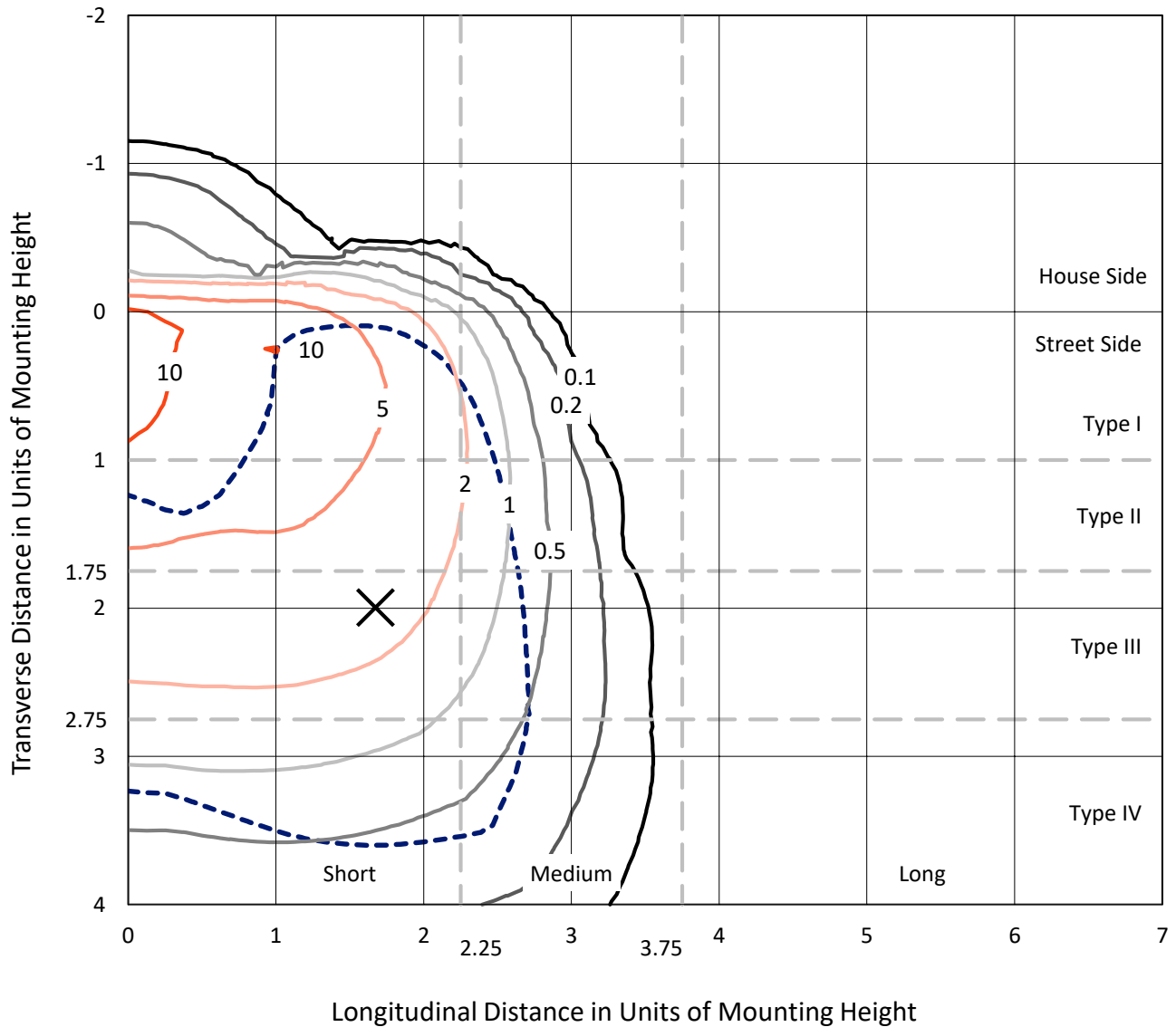
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

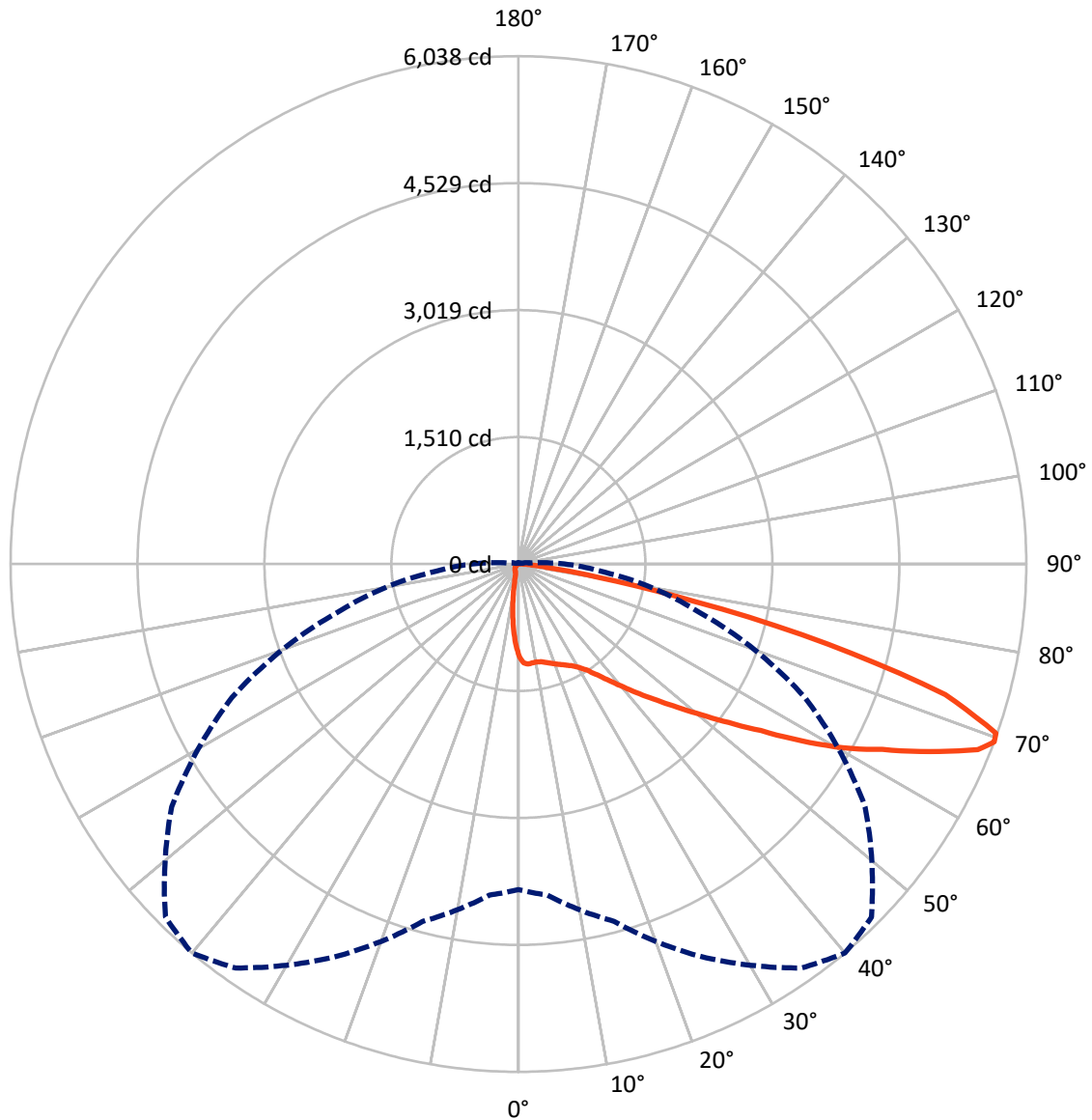
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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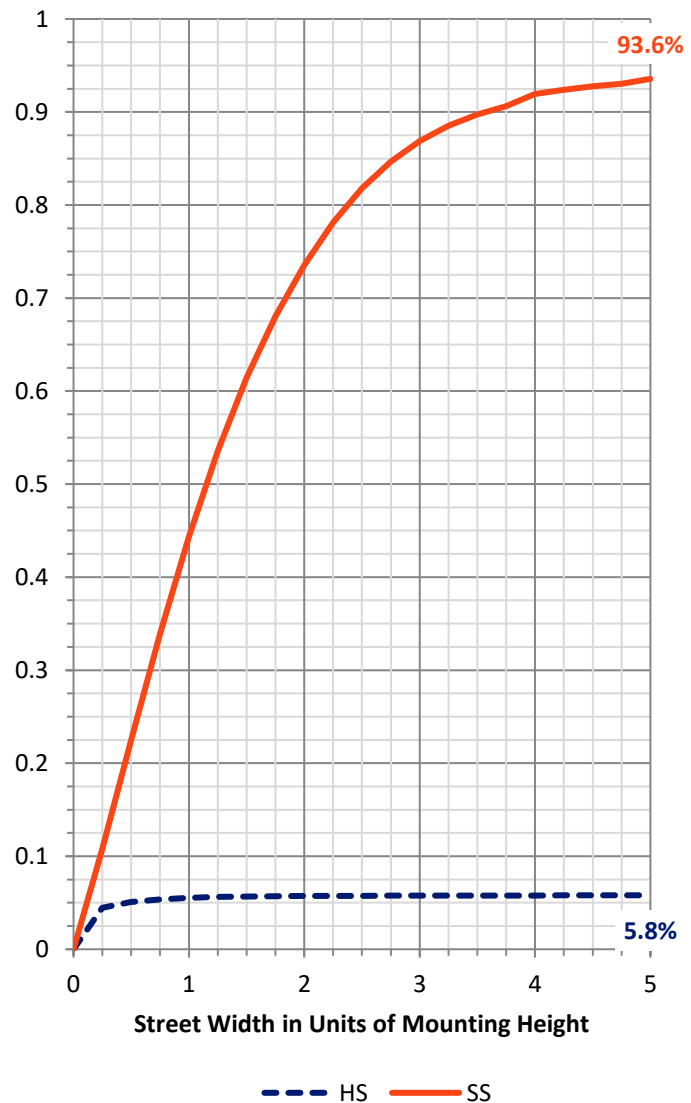
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	429.9	0.0	429.9
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	6918.1	0.0	6918.1
	% Fixture	94.1	0.0	94.1
Total	Lumens	7348.0	0.0	7348.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.0	1.2
10°-20°	218.9	3.0
20°-30°	368.7	5.0
30°-40°	603.6	8.2
40°-50°	1045.1	14.2
50°-60°	1646.1	22.4
60°-70°	2149.7	29.3
70°-80°	1107.2	15.1
80°-90°	119.8	1.6
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°	7348.0	100.0
0°-180°	7348.0	100.0



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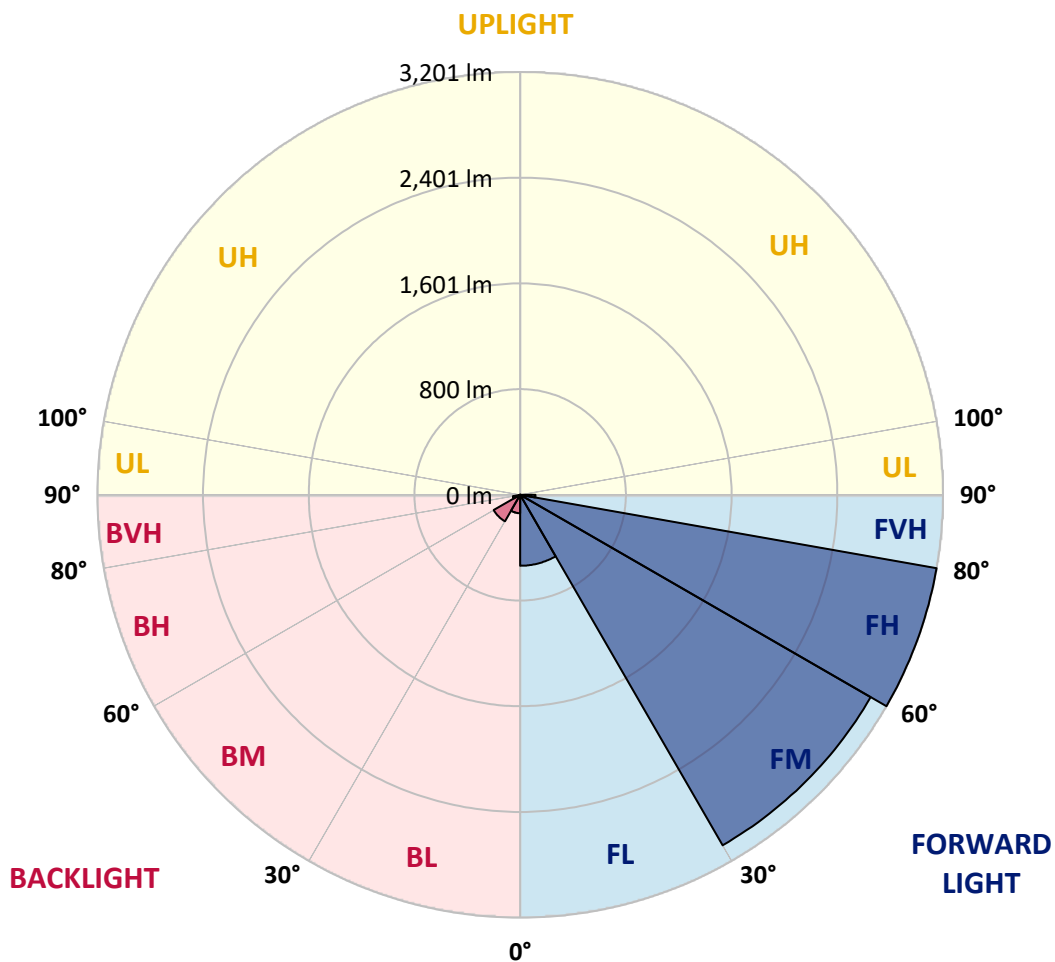
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	537.4	7.3			
FM	(30°-60°)	3063.7	41.7			
FH	(60°-80°)	3201.1	43.6			G2/5000
FVH	(80°-90°)	116.0	1.6			G2/225
BL	(0°-30°)	139.3	1.9	B1/500		
BM	(30°-60°)	231.1	3.1	B1/1000		
BH	(60°-80°)	55.8	0.8	B0/110		G0/110
BVH	(80°-90°)	3.8	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1097.8	1097.8	1097.8	1097.8	1097.8	1097.8	1097.8	1097.8	1097.8	1097.8	1097.8
2.5°	1205.4	1198.9	1194.9	1189.7	1183.1	1177.4	1175.3	1159.1	1143.8	1122.8	1098.7
5°	1227.7	1225.6	1218.6	1211.6	1203.7	1194.9	1190.1	1170.9	1149.0	1118.4	1076.4
7.5°	1229.9	1227.3	1218.6	1208.9	1198.0	1187.5	1179.2	1159.9	1139.8	1108.8	1057.6
10°	1226.4	1223.4	1216.8	1206.3	1192.7	1182.7	1174.4	1156.0	1138.9	1111.0	1054.1
12.5°	1222.5	1219.4	1216.4	1211.1	1199.3	1192.3	1185.3	1167.8	1152.5	1128.9	1066.8
15°	1226.4	1224.7	1228.2	1226.0	1219.4	1213.3	1206.3	1190.6	1176.6	1156.9	1090.0
17.5°	1243.0	1243.0	1254.0	1255.3	1249.2	1240.4	1230.4	1214.6	1202.8	1186.2	1117.5
20°	1282.0	1280.7	1294.7	1297.3	1282.4	1268.9	1254.0	1234.7	1225.6	1215.1	1144.6
22.5°	1348.9	1342.8	1351.1	1348.5	1319.2	1298.2	1279.8	1256.2	1251.4	1246.5	1174.8
25°	1435.9	1432.4	1438.1	1412.3	1360.7	1332.3	1310.4	1283.7	1283.7	1288.5	1208.9
27.5°	1562.3	1549.2	1530.0	1484.5	1407.1	1370.8	1347.1	1318.7	1326.1	1344.1	1254.0
30°	1691.8	1677.4	1633.2	1563.2	1463.5	1425.4	1397.9	1368.1	1385.6	1418.4	1314.3
32.5°	1819.5	1803.3	1740.8	1652.4	1544.4	1506.4	1479.7	1446.9	1476.2	1531.3	1402.7
35°	1943.3	1928.9	1856.7	1752.6	1652.0	1620.5	1596.0	1567.6	1605.2	1682.2	1527.3
37.5°	2082.4	2066.6	1978.7	1865.9	1782.8	1760.0	1742.1	1713.7	1779.3	1892.1	1701.0
40°	2253.4	2226.7	2108.2	1995.8	1934.1	1923.2	1910.9	1907.0	2008.9	2165.1	1932.4
42.5°	2449.4	2405.6	2243.8	2132.7	2100.3	2108.2	2105.1	2122.6	2296.3	2504.5	2214.0
45°	2645.3	2588.9	2394.7	2278.8	2283.1	2310.7	2327.8	2397.7	2656.2	2893.7	2517.1
47.5°	2811.5	2756.0	2539.5	2436.7	2489.2	2543.4	2589.8	2722.3	3026.3	3276.9	2752.9
50°	2953.7	2901.2	2693.0	2610.3	2728.4	2815.9	2891.1	3087.5	3424.3	3568.6	2918.2
52.5°	3070.0	3035.0	2852.2	2809.3	3001.8	3129.9	3240.1	3475.5	3776.8	3805.7	3046.8
55°	3183.3	3158.4	3023.2	3045.9	3322.8	3497.3	3636.8	3887.0	4080.4	4003.4	3170.2
57.5°	3313.6	3290.9	3218.3	3346.0	3744.9	3964.5	4116.7	4251.8	4347.6	4205.4	3286.5
60°	3446.6	3433.5	3435.2	3679.3	4229.5	4440.3	4524.3	4559.3	4610.0	4395.7	3293.1
62.5°	3573.4	3598.4	3683.2	4050.2	4693.6	4855.4	4897.8	4932.4	4872.9	4425.9	3042.4
65°	3788.2	3828.9	4031.4	4546.6	5204.0	5377.2	5420.9	5302.4	4914.4	4035.7	2474.7
67.5°	3893.2	3967.5	4328.8	5009.4	5699.1	5891.6	5875.4	5326.5	4410.1	3077.4	1588.1
69°	3871.3	3950.5	4397.5	5151.1	5863.6	6038.1	5935.3	5032.1	3757.1	2229.3	974.9
70°	3784.7	3864.7	4362.0	5145.8	5884.6	6022.8	5824.2	4668.6	3176.7	1630.1	609.7
72.5°	3160.5	3229.6	3872.6	4651.1	5420.9	5308.5	4872.5	3234.5	1547.9	443.9	137.3
75°	1945.5	1984.0	2778.7	3503.9	4094.4	3805.7	3246.3	1609.1	461.4	125.5	76.1
77.5°	1027.9	1045.3	1521.2	2065.3	2595.4	2147.6	1663.8	627.6	212.6	78.7	55.1
80°	607.5	620.6	819.2	944.3	1123.2	938.2	665.3	385.3	152.2	49.4	49.0
82.5°	347.7	356.0	594.0	524.9	442.6	377.9	331.1	365.2	91.4	33.2	50.7
85°	127.7	129.5	334.2	399.3	263.3	156.6	164.5	302.7	24.5	21.0	39.8
87.5°	59.5	58.2	171.9	244.5	154.0	99.3	128.2	66.5	9.6	13.6	10.9
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°	1097.8	1097.8	1097.8	1097.8	1097.8	1097.8	1097.8	1097.8	1097.8	1097.8	1097.8
2.5°	1084.7	1068.5	1039.2	1009.0	978.4	954.8	931.6	913.3	907.1	895.8	896.6
5°	1051.5	1021.7	960.5	898.4	833.7	780.3	730.0	689.3	669.6	649.5	649.5
7.5°	1022.6	979.3	883.5	782.5	677.9	590.0	510.9	451.4	418.6	392.3	391.9
10°	1011.7	953.1	819.2	674.4	528.8	409.0	314.9	254.6	223.5	203.4	202.5
12.5°	1016.5	943.9	769.8	574.7	391.9	262.9	182.4	143.5	130.3	124.2	124.2
15°	1030.5	941.3	720.4	477.2	276.9	164.5	121.2	110.7	109.8	109.8	109.8
17.5°	1047.5	942.1	669.6	382.3	188.5	117.7	104.5	103.2	104.1	104.1	104.1
20°	1065.0	942.6	615.0	294.4	133.0	102.3	98.4	98.0	98.8	98.8	99.3
22.5°	1086.5	944.7	560.3	220.0	109.8	96.7	93.6	93.6	94.0	94.0	93.6
25°	1111.0	949.1	503.4	163.1	100.2	92.7	90.1	89.7	90.1	89.7	89.2
27.5°	1141.6	955.2	440.0	127.7	95.8	88.8	86.6	86.6	86.2	85.7	85.3
30°	1180.1	962.2	368.7	108.5	91.4	85.3	83.1	82.7	82.2	81.4	81.4
32.5°	1238.7	977.6	298.3	98.4	86.6	80.5	78.7	78.7	77.9	77.0	76.5
35°	1328.8	1007.7	235.3	92.3	81.4	75.2	73.0	73.0	72.2	71.7	71.3
37.5°	1453.4	1053.7	182.8	86.6	76.1	69.5	67.4	66.9	66.0	65.2	64.7
40°	1619.2	1110.5	143.9	81.4	70.9	63.9	62.1	61.2	59.5	58.2	58.2
42.5°	1827.4	1175.3	116.8	75.7	64.7	58.6	57.3	56.0	52.9	51.6	51.2
45°	2045.2	1233.4	98.8	69.1	58.6	53.4	52.5	50.3	46.4	45.1	45.1
47.5°	2202.2	1247.0	87.0	63.0	52.9	47.7	47.2	43.3	39.8	38.9	38.5
50°	2300.2	1220.3	77.4	56.9	47.7	42.4	41.1	36.3	34.1	33.2	32.8
52.5°	2366.2	1172.6	69.5	51.6	42.9	37.6	34.6	31.1	29.3	28.4	28.4
55°	2419.2	1105.3	61.7	46.8	38.9	33.7	29.3	26.7	24.9	24.1	24.1
57.5°	2434.0	1013.9	53.8	42.9	35.0	29.7	24.9	23.2	21.0	20.6	20.6
60°	2326.0	849.0	47.7	38.1	31.5	25.8	21.9	19.7	17.5	17.1	16.6
62.5°	2041.3	657.0	42.0	33.7	27.6	22.3	18.8	16.2	14.4	14.4	14.4
65°	1557.1	440.4	36.7	29.3	24.1	18.8	16.2	13.1	12.2	12.2	12.7
67.5°	932.1	239.7	31.5	24.9	20.6	15.7	13.6	11.4	10.9	11.4	11.4
69°	546.3	140.8	28.4	22.3	17.9	14.0	11.8	10.1	10.9	11.4	11.4
70°	337.2	94.9	26.2	20.1	16.2	12.7	10.9	9.6	10.5	10.9	10.9
72.5°	94.0	49.0	21.0	15.7	13.1	10.5	8.7	8.7	10.1	10.5	10.5
75°	61.2	36.3	16.2	11.8	10.1	8.3	7.4	8.3	9.6	10.1	10.1
77.5°	50.7	29.7	13.1	9.6	8.3	7.9	7.0	7.4	8.7	9.2	9.2
80°	46.4	21.0	10.5	8.7	7.4	7.0	6.6	6.1	7.9	8.3	8.3
82.5°	44.2	16.6	9.2	7.9	7.0	6.1	5.7	6.1	7.0	7.4	7.9
85°	27.6	10.9	8.3	7.4	6.1	5.7	5.7	5.7	6.6	7.0	7.0
87.5°	10.1	8.7	7.4	6.1	5.2	5.2	5.2	5.2	5.7	6.6	6.6
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)