

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: P193771

Luminaire Tested: **GLEON-AF-03-LED-E1-SL4-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193771
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-03-LED-E1-SL4-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9284 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G3

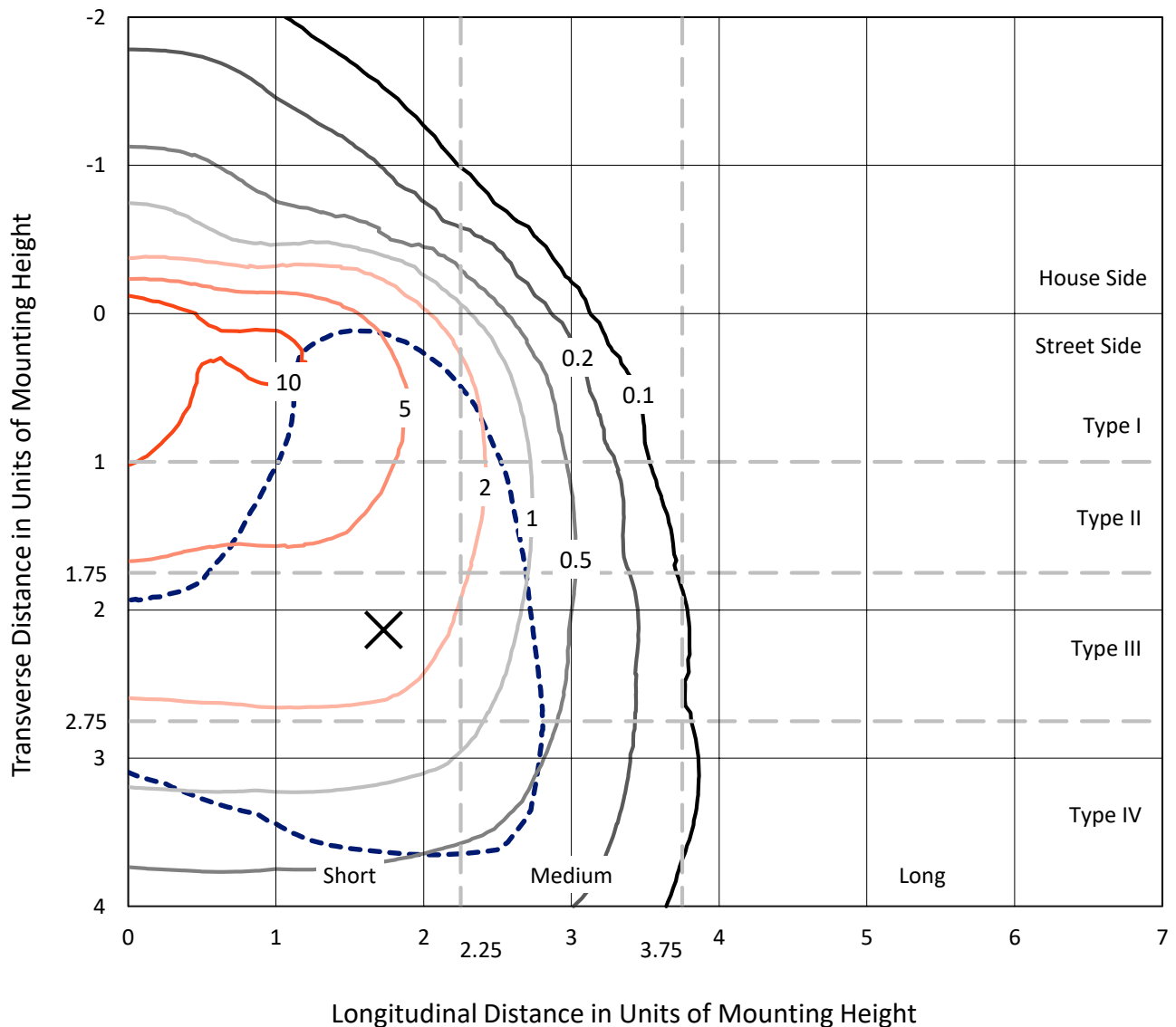
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P193771
 CATALOG NUMBER: GLEON-AF-03-LED-E1-SL4-8030-600

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

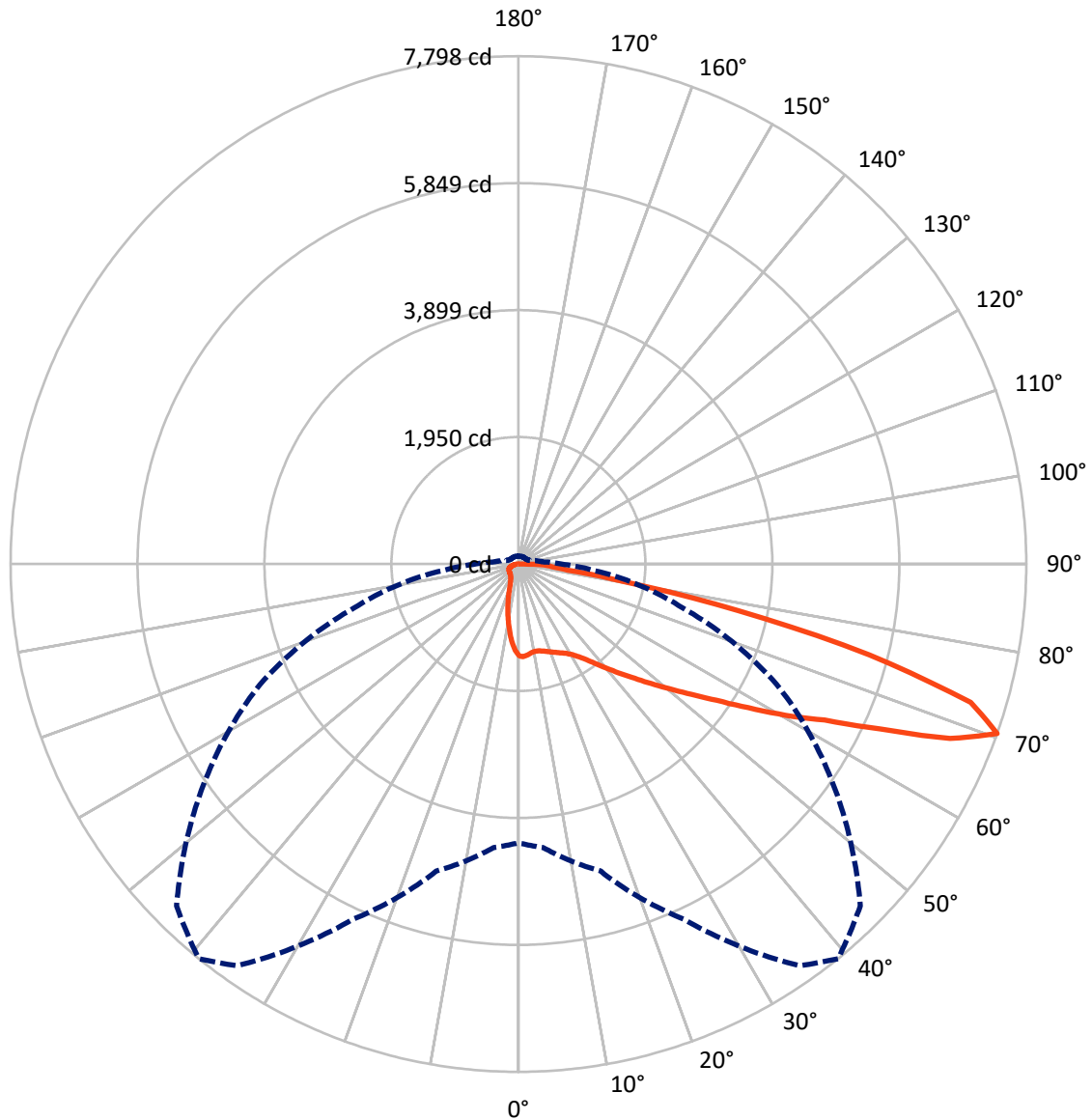


Based on 10 foot mounting height. Maximum calculated value = 14.1 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P193771

CATALOG NUMBER: GLEON-AF-03-LED-E1-SL4-8030-600

Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P193771

CATALOG NUMBER: GLEON-AF-03-LED-E1-SL4-8030-600

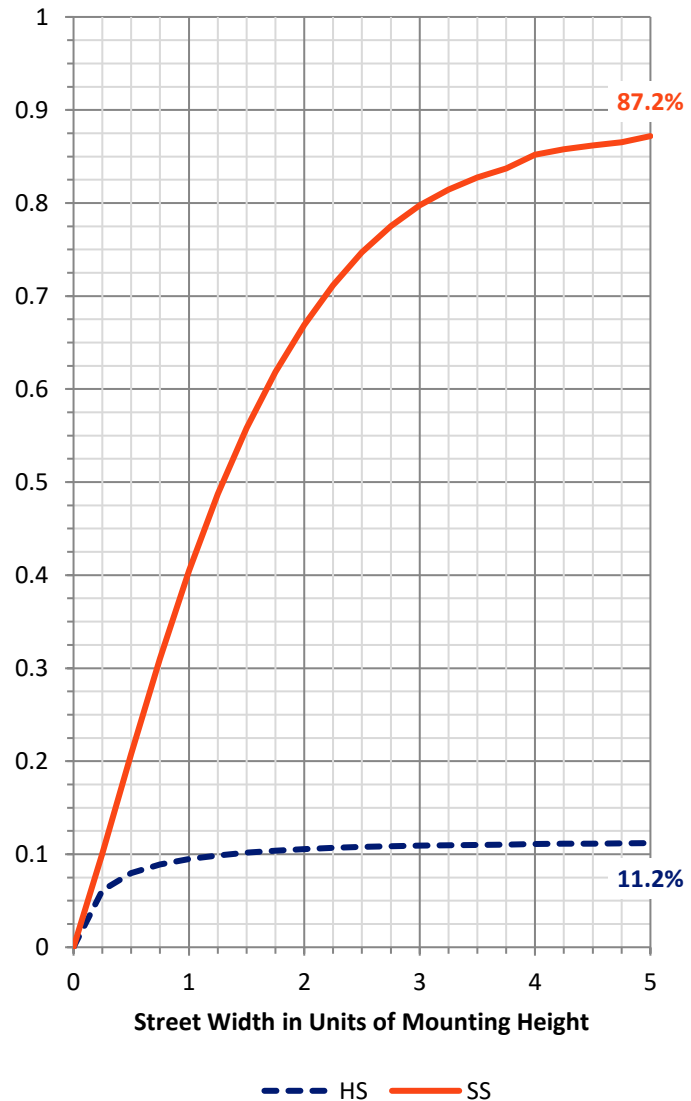
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1055.9	0.0	1055.9
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	8228.1	0.0	8228.1
	% Fixture	88.6	0.0	88.6
Total	Lumens	9284.0	0.0	9284.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.0	1.3
10°-20°	302.3	3.3
20°-30°	470.8	5.1
30°-40°	733.4	7.9
40°-50°	1231.2	13.3
50°-60°	1955.9	21.1
60°-70°	2608.9	28.1
70°-80°	1575.5	17.0
80°-90°	285.1	3.1
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°	9284.0	100.0
0°-180°	9284.0	100.0

Coefficient of Utilization



REPORT NUMBER: P193771

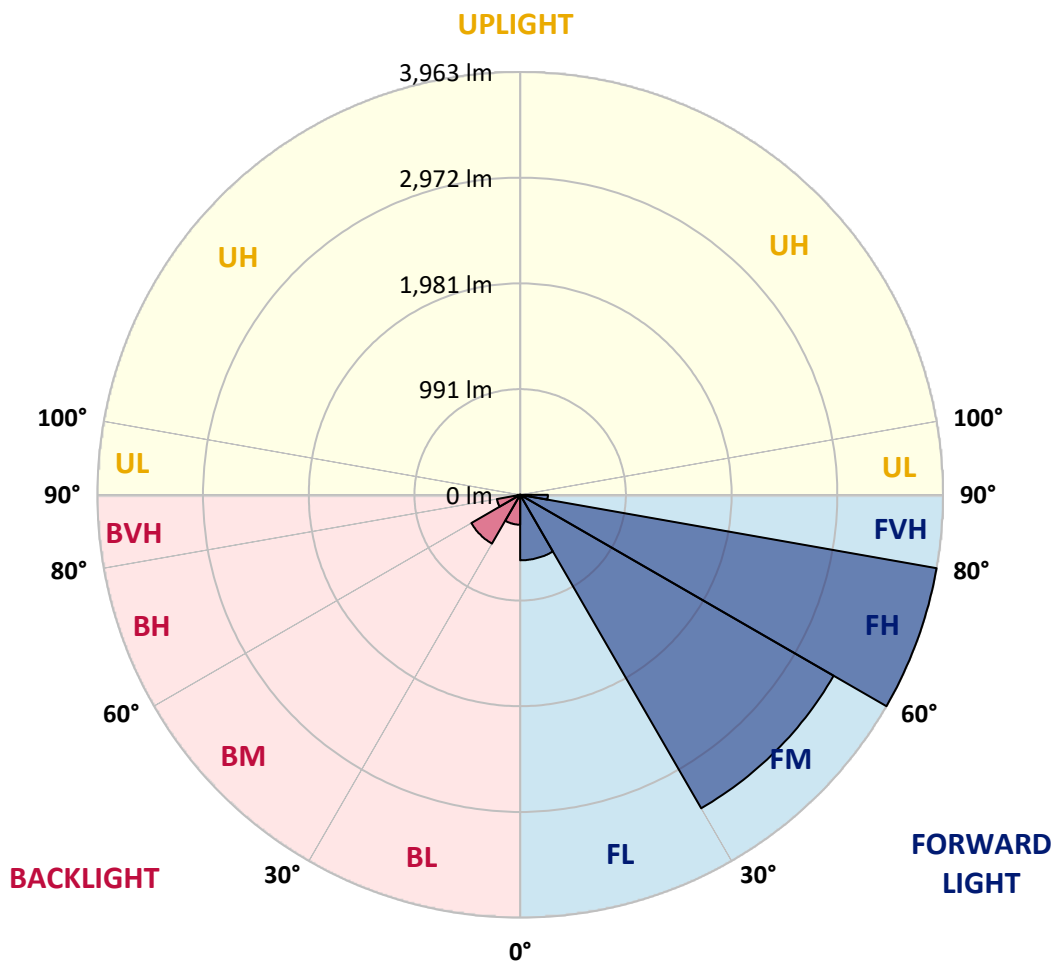
CATALOG NUMBER: GLEON-AF-03-LED-E1-SL4-8030-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	614.0	6.6			
FM	(30°-60°)	3392.0	36.5			
FH	(60°-80°)	3962.7	42.7			G2/5000
FVH	(80°-90°)	259.4	2.8			G3/500
BL	(0°-30°)	280.1	3.0	B1/500		
BM	(30°-60°)	528.4	5.7	B1/1000		
BH	(60°-80°)	221.7	2.4	B1/500		G1/500
BVH	(80°-90°)	25.7	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





REPORT NUMBER: P193771

CATALOG NUMBER: GLEON-AF-03-LED-E1-SL4-8030-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1409.5	1409.5	1409.5	1409.5	1409.5	1409.5	1409.5	1409.5	1409.5	1409.5	1409.5
2.5°	1436.8	1436.4	1432.6	1429.8	1427.4	1426.4	1428.3	1421.3	1415.1	1407.6	1399.5
5°	1426.0	1425.5	1419.4	1413.7	1408.0	1406.2	1405.7	1392.9	1385.4	1374.1	1358.9
7.5°	1414.2	1411.8	1403.8	1394.4	1384.4	1379.7	1375.0	1358.5	1350.0	1338.7	1321.2
10°	1401.9	1399.1	1391.5	1382.1	1372.6	1365.6	1357.5	1341.5	1332.5	1324.0	1303.7
12.5°	1389.2	1386.8	1384.9	1380.7	1374.1	1367.9	1361.8	1348.1	1338.7	1328.7	1305.1
15°	1387.3	1386.3	1390.6	1393.4	1389.6	1385.9	1379.2	1367.4	1357.5	1347.6	1316.9
17.5°	1402.4	1401.9	1412.8	1420.3	1418.4	1411.8	1402.8	1389.6	1381.6	1373.1	1334.9
20°	1435.4	1437.8	1451.0	1460.9	1451.5	1442.0	1427.4	1409.0	1404.7	1401.0	1353.3
22.5°	1497.7	1500.1	1509.5	1513.3	1488.8	1475.1	1454.8	1431.2	1428.3	1431.2	1375.5
25°	1595.0	1592.6	1591.2	1577.0	1532.2	1510.9	1485.0	1460.4	1461.8	1474.6	1406.6
27.5°	1723.8	1711.1	1691.3	1648.8	1577.5	1553.9	1522.3	1499.6	1508.6	1533.1	1453.4
30°	1857.4	1843.2	1797.5	1728.1	1637.0	1611.0	1575.6	1550.1	1573.7	1612.4	1515.7
32.5°	1981.1	1979.2	1912.2	1822.9	1719.1	1696.4	1661.0	1632.2	1670.5	1729.5	1609.1
35°	2116.1	2120.3	2040.1	1932.9	1830.0	1806.4	1780.9	1759.2	1810.2	1891.4	1744.6
37.5°	2260.5	2269.0	2174.1	2053.3	1956.5	1946.6	1931.5	1922.1	2000.9	2113.2	1933.9
40°	2453.6	2445.1	2313.4	2189.2	2111.8	2111.4	2106.6	2118.0	2249.2	2403.1	2177.0
42.5°	2660.3	2635.3	2461.1	2335.1	2282.2	2298.3	2307.7	2354.0	2548.0	2755.2	2473.4
45°	2883.1	2826.9	2614.5	2489.4	2471.5	2505.5	2537.6	2638.1	2899.6	3155.9	2798.1
47.5°	3061.1	3006.8	2773.1	2651.3	2690.5	2742.0	2803.8	2962.9	3293.3	3569.9	3118.6
50°	3201.2	3165.8	2933.1	2840.2	2931.7	3011.0	3112.0	3330.6	3703.0	3973.0	3415.5
52.5°	3337.2	3310.8	3094.6	3033.7	3214.9	3324.4	3461.8	3725.2	4123.1	4369.5	3665.2
55°	3459.9	3441.0	3268.3	3274.9	3548.2	3690.7	3863.5	4174.6	4581.0	4723.0	3876.7
57.5°	3598.2	3574.1	3466.5	3577.4	3976.3	4161.3	4386.0	4679.6	5010.5	5037.4	4037.7
60°	3737.5	3716.7	3686.5	3926.7	4520.1	4714.5	4927.4	5169.1	5446.2	5281.4	4028.2
62.5°	3858.3	3860.7	3914.0	4293.5	5052.5	5277.7	5537.3	5776.1	5840.3	5323.9	3730.4
65°	4063.2	4100.4	4259.5	4812.7	5802.1	6103.2	6421.8	6383.6	5949.4	4927.0	3091.7
67.5°	4306.7	4372.3	4694.7	5504.7	6749.4	7149.2	7272.4	6521.0	5512.7	4005.1	2203.9
70°	4282.2	4372.3	4882.6	6020.6	7530.2	7798.3	7424.4	5901.7	4377.5	2616.4	1170.6
72.5°	3802.6	3931.5	4499.8	5784.1	7284.2	7260.6	6445.4	4399.7	2600.8	1050.7	457.4
75°	2898.2	3028.5	3517.5	4569.6	5757.2	5559.0	4573.4	2430.4	987.0	417.3	288.4
77.5°	1667.2	1768.2	2145.8	2802.4	3652.5	3449.1	2545.6	1080.9	480.5	290.8	225.2
80°	930.8	987.0	1216.4	1421.7	1789.9	1640.7	1139.0	671.7	358.7	211.0	173.7
82.5°	735.9	785.9	983.7	896.8	817.5	754.3	654.2	598.1	286.5	133.1	103.8
85°	642.9	690.6	832.6	706.1	558.4	512.1	531.5	588.6	222.8	80.2	88.7
87.5°	595.7	659.4	742.0	544.2	434.7	385.2	490.4	645.3	71.7	50.0	35.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P193771

CATALOG NUMBER: GLEON-AF-03-LED-E1-SL4-8030-600

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1409.5	1409.5	1409.5	1409.5	1409.5	1409.5	1409.5	1409.5	1409.5	1409.5	1409.5
2.5°	1392.5	1384.9	1372.6	1361.8	1344.8	1335.8	1325.9	1318.8	1313.2	1308.4	1316.0
5°	1349.5	1335.3	1309.4	1281.5	1248.5	1222.5	1200.8	1180.5	1166.4	1156.9	1163.5
7.5°	1308.9	1285.8	1245.2	1194.7	1138.0	1089.9	1050.2	1015.3	991.2	975.7	981.8
10°	1285.8	1257.0	1194.2	1114.9	1031.4	956.3	894.0	840.2	802.9	781.7	785.0
12.5°	1280.1	1242.8	1156.0	1046.9	932.7	828.4	740.6	666.0	613.6	586.3	587.2
15°	1284.4	1236.7	1120.1	981.8	837.4	705.7	596.2	505.5	444.6	413.5	413.0
17.5°	1291.4	1232.0	1082.3	911.5	740.6	587.7	465.4	376.7	322.9	297.8	296.0
20°	1299.0	1224.4	1039.9	835.5	640.1	478.2	364.4	295.0	261.0	247.3	246.4
22.5°	1309.9	1217.8	996.0	755.2	541.4	389.4	299.7	253.0	235.1	228.0	227.0
25°	1327.3	1214.5	949.2	671.7	452.7	325.7	261.0	232.2	221.8	217.1	216.7
27.5°	1356.6	1219.2	905.3	590.5	380.4	282.7	239.3	221.8	214.3	210.0	209.6
30°	1394.4	1233.9	859.1	513.6	324.3	253.5	226.1	214.8	208.6	204.4	204.4
32.5°	1457.1	1258.4	810.5	447.0	284.2	233.2	216.2	208.6	203.4	200.1	199.7
35°	1549.6	1304.7	765.1	391.8	255.4	218.5	207.7	202.0	198.2	196.4	196.4
37.5°	1684.2	1377.8	725.0	352.1	237.9	208.6	199.7	195.4	193.1	193.1	193.1
40°	1865.0	1478.8	692.5	325.7	228.0	201.6	193.5	190.2	188.8	189.3	189.3
42.5°	2088.2	1610.1	670.7	307.3	223.3	197.3	189.3	186.4	185.0	184.6	185.0
45°	2342.6	1759.2	668.4	293.6	218.5	194.5	186.4	183.6	180.8	178.9	178.9
47.5°	2590.0	1910.7	687.7	288.9	213.4	191.2	184.1	181.3	177.0	172.8	172.8
50°	2808.5	2039.6	713.7	290.8	211.5	186.4	180.3	178.9	172.3	167.6	167.1
52.5°	2982.2	2138.7	734.9	296.4	213.4	183.1	175.6	176.1	169.0	163.8	163.3
55°	3121.5	2203.9	729.3	302.1	217.6	181.3	171.3	172.3	166.6	161.4	161.4
57.5°	3182.4	2179.8	666.5	297.4	220.9	181.7	168.0	171.8	167.1	162.4	162.4
60°	3051.6	1966.0	549.0	276.6	216.7	180.3	166.6	173.7	173.2	168.5	168.0
62.5°	2656.1	1583.2	425.8	245.9	202.0	173.2	162.8	173.2	178.4	177.0	176.5
65°	2047.2	1127.7	325.2	212.9	182.2	161.4	152.9	162.4	169.5	171.3	170.9
67.5°	1328.7	691.0	250.6	181.7	160.0	147.7	140.2	144.4	145.9	145.9	144.9
70°	653.3	372.0	199.7	152.9	137.4	133.1	128.9	126.5	124.1	122.3	122.3
72.5°	322.4	243.1	164.3	129.3	118.5	116.6	115.6	112.8	110.9	108.6	107.6
75°	238.4	197.8	139.7	109.0	102.0	100.1	102.0	99.6	99.1	97.2	96.3
77.5°	195.9	168.5	120.4	93.5	87.3	84.0	86.9	87.3	87.8	85.0	84.0
80°	159.1	142.6	100.5	77.4	71.7	69.4	71.3	75.1	76.0	71.7	69.9
82.5°	114.7	116.6	81.2	60.4	55.7	53.8	57.6	62.3	63.3	57.1	55.7
85°	96.3	97.2	62.3	43.0	38.2	35.4	41.5	46.3	49.6	43.4	42.0
87.5°	40.1	57.1	35.9	24.1	21.2	18.4	22.2	24.5	29.7	27.4	26.9
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)