

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: P193171

Luminaire Tested: **GLEON-AF-03-LED-E1-T3-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193171
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
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-T3-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11582.6 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

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



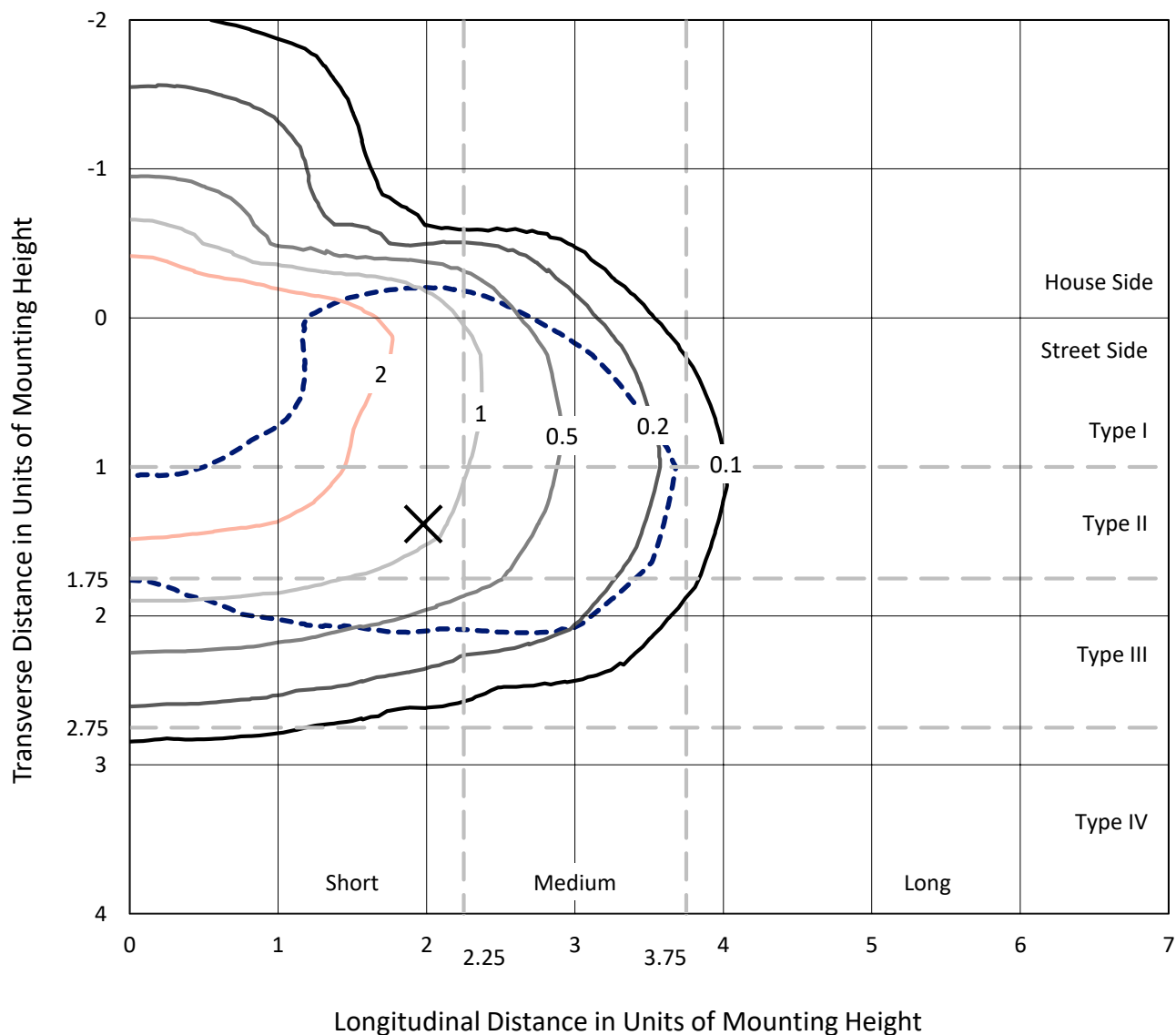
REPORT NUMBER: P193171

CATALOG NUMBER: GLEON-AF-03-LED-E1-T3-7030-600

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

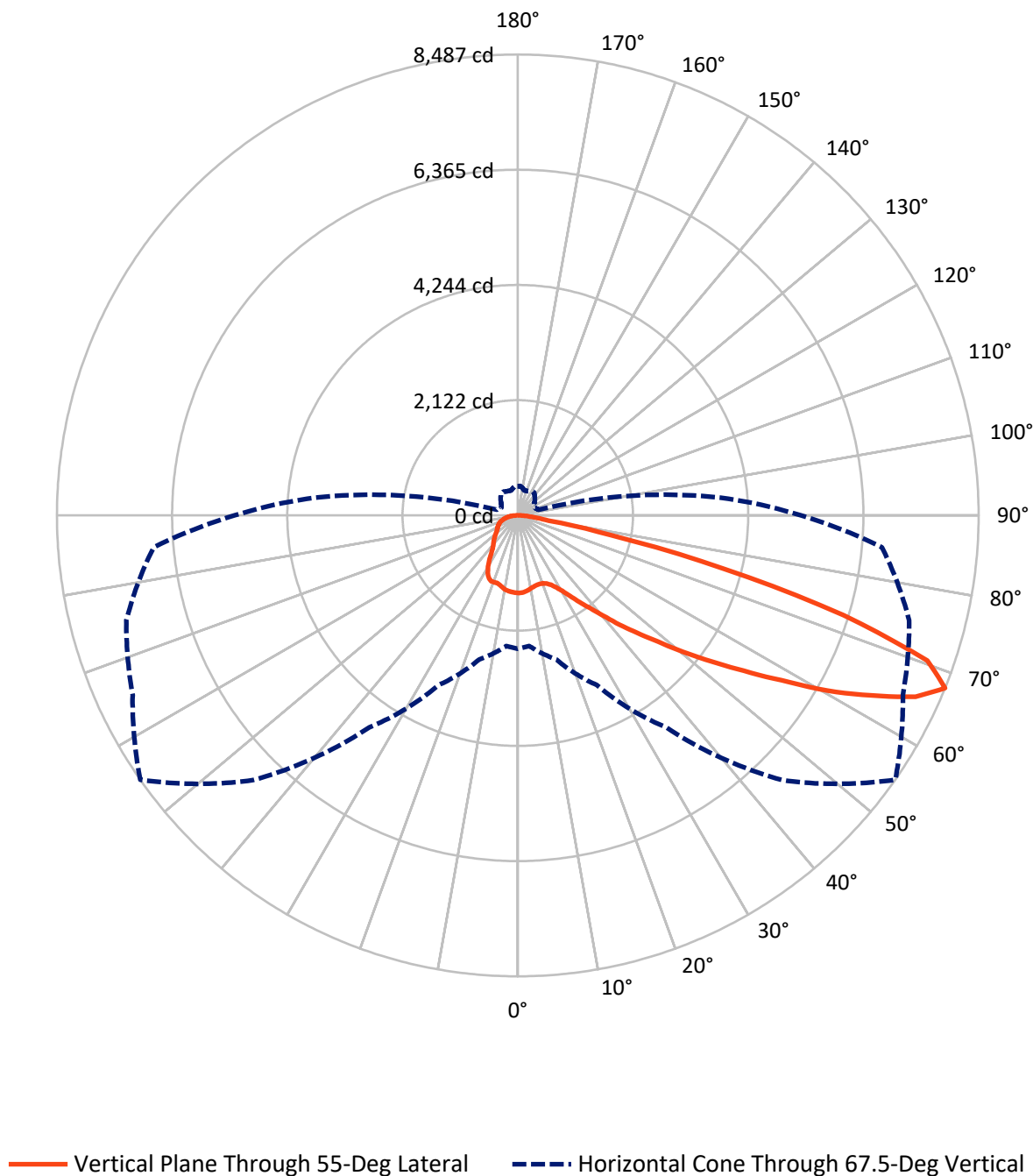


Based on 20 foot mounting height. Maximum calculated value = 3.7 fc
Type III - Short - Full Cutoff

REPORT NUMBER: P193171

CATALOG NUMBER: GLEON-AF-03-LED-E1-T3-7030-600

Luminous Intensity Polar Plot



REPORT NUMBER: P193171

CATALOG NUMBER: GLEON-AF-03-LED-E1-T3-7030-600

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2502.1	0.0	2502.1
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	9080.5	0.0	9080.5
	% Fixture	78.4	0.0	78.4
Total	Lumens	11582.6	0.0	11582.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.3	1.2
10°-20°	377.6	3.3
20°-30°	632.5	5.5
30°-40°	1040.0	9.0
40°-50°	1750.7	15.1
50°-60°	2755.5	23.8
60°-70°	3288.4	28.4
70°-80°	1412.1	12.2
80°-90°	192.5	1.7
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°	11582.6	100.0
0°-180°	11582.6	100.0

Coefficient of Utilization



REPORT NUMBER: P193171

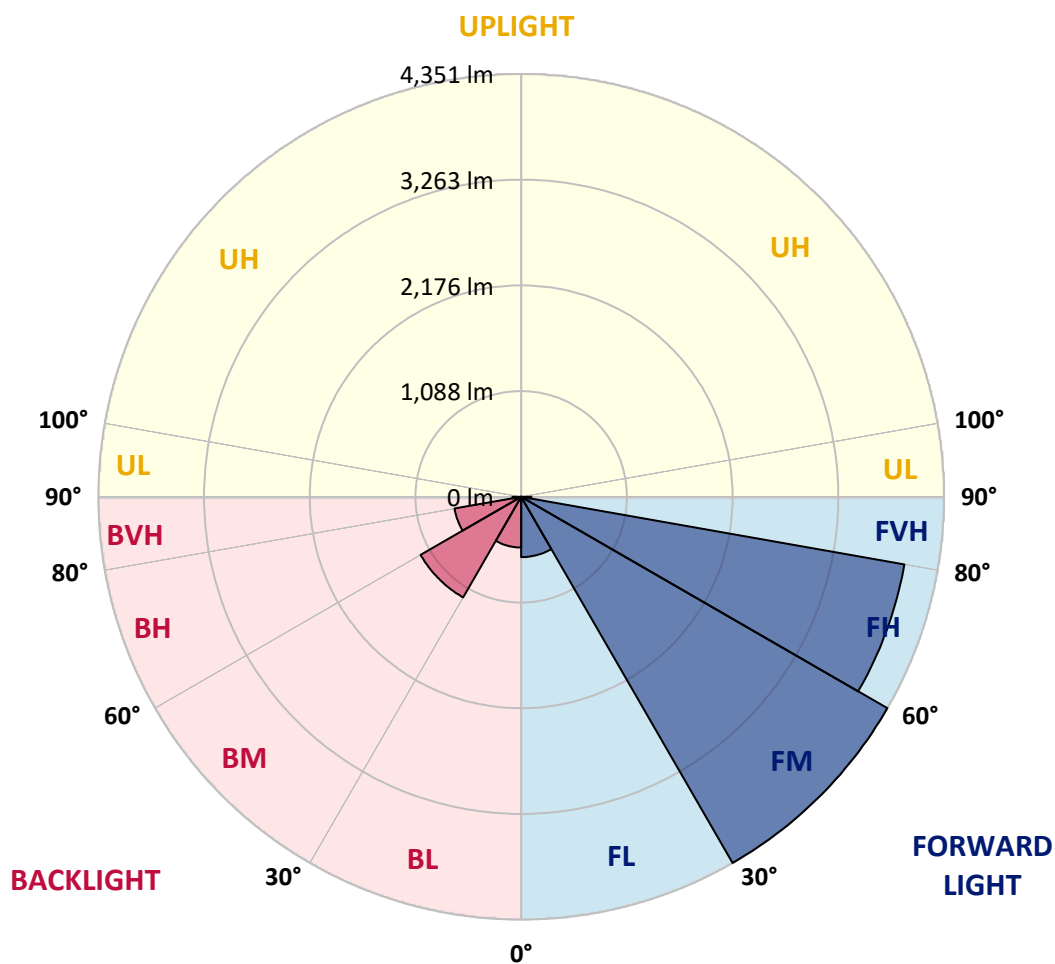
CATALOG NUMBER: GLEON-AF-03-LED-E1-T3-7030-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	620.9	5.4			
FM	(30°-60°)	4351.3	37.6			
FH	(60°-80°)	4004.1	34.6			G2/5000
FVH	(80°-90°)	104.2	0.9			G2/225
BL	(0°-30°)	522.5	4.5	B2/1000		
BM	(30°-60°)	1195.0	10.3	B2/2500		
BH	(60°-80°)	696.3	6.0	B2/1000		G2/1000
BVH	(80°-90°)	88.3	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short



REPORT NUMBER: P193171

CATALOG NUMBER: GLEON-AF-03-LED-E1-T3-7030-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1428.2	1428.2	1428.2	1428.2	1428.2	1428.2	1428.2	1428.2	1428.2	1428.2	1428.2
2.5°	1416.0	1416.5	1417.6	1422.1	1426.1	1424.8	1425.5	1423.2	1422.7	1419.3	1422.7
5°	1398.1	1399.7	1400.2	1407.6	1412.0	1413.2	1411.5	1408.7	1405.3	1402.1	1403.7
7.5°	1357.2	1361.7	1362.3	1372.3	1379.6	1389.1	1389.7	1390.3	1388.5	1386.3	1389.7
10°	1331.5	1332.6	1332.0	1339.3	1344.9	1355.6	1361.7	1372.3	1376.7	1377.9	1380.2
12.5°	1329.8	1328.7	1327.0	1327.0	1325.4	1329.8	1340.9	1356.1	1366.8	1370.1	1372.9
15°	1347.7	1347.1	1341.6	1333.2	1322.5	1319.2	1328.7	1345.4	1359.4	1366.8	1369.6
17.5°	1388.0	1384.7	1375.7	1356.7	1333.7	1324.8	1325.9	1339.8	1356.1	1365.6	1368.4
20°	1461.8	1461.8	1442.8	1407.0	1366.2	1344.9	1334.8	1343.3	1358.8	1371.8	1375.7
22.5°	1589.4	1590.5	1558.6	1499.9	1431.1	1385.7	1360.6	1358.8	1377.3	1391.9	1396.4
25°	1770.1	1765.6	1720.9	1636.9	1532.4	1457.3	1413.7	1403.7	1419.3	1435.5	1441.1
27.5°	1980.5	1964.2	1911.1	1809.8	1674.4	1564.8	1497.6	1481.4	1496.6	1515.0	1520.6
30°	2188.6	2171.7	2108.6	1997.8	1847.2	1708.5	1612.3	1586.0	1607.3	1633.5	1636.9
32.5°	2396.6	2396.6	2326.1	2196.9	2033.0	1880.3	1765.1	1733.7	1768.9	1800.8	1808.1
35°	2645.6	2646.7	2578.5	2423.0	2246.7	2085.0	1958.0	1935.1	1988.3	2010.6	2028.0
37.5°	2951.6	2957.7	2869.9	2682.0	2488.9	2318.9	2167.8	2136.6	2189.7	2250.6	2306.6
40°	3282.2	3290.2	3193.3	2961.7	2768.6	2590.7	2427.4	2370.9	2459.3	2575.7	2647.9
42.5°	3597.8	3638.0	3544.6	3306.3	3098.7	2914.7	2749.1	2666.9	2777.6	2953.3	3016.0
45°	4053.7	4082.8	3920.0	3704.1	3508.9	3302.9	3083.7	2997.0	3151.9	3373.5	3386.3
47.5°	4357.5	4335.7	4252.9	4118.6	3994.9	3802.6	3472.5	3377.3	3583.2	3844.0	3771.7
50°	4519.2	4525.8	4514.7	4522.6	4527.0	4406.2	3949.0	3818.7	4064.3	4379.3	4213.1
52.5°	4670.2	4625.5	4662.4	4845.8	5067.5	5022.6	4467.7	4331.8	4580.1	4973.5	4679.8
55°	4666.9	4598.6	4718.9	5042.9	5523.4	5574.9	5050.1	4893.4	5125.6	5610.7	5174.3
57.5°	4501.8	4505.2	4690.4	5114.4	5841.1	6094.1	5725.9	5491.0	5704.1	6256.3	5625.8
60°	4274.7	4305.5	4572.3	5102.6	6095.7	6519.7	6555.0	6134.8	6270.8	6843.1	5999.4
62.5°	3908.3	3940.8	4308.8	4980.7	6057.2	6929.8	7304.6	6865.6	6863.2	7198.9	6109.1
65°	3330.3	3320.8	3707.3	4524.8	5733.2	7233.1	8049.2	7497.1	7309.7	7204.5	5888.7
67.5°	2455.9	2413.4	2745.1	3446.1	4765.4	6893.5	8487.3	7826.0	7461.9	6730.7	5215.2
70°	1274.4	1231.9	1500.4	2012.3	3134.0	5380.2	8002.2	7656.1	7125.7	5641.9	4085.6
72.5°	544.8	537.7	646.7	882.9	1516.1	3103.2	6274.8	6626.6	6114.1	4203.6	2808.9
75°	366.4	364.2	405.1	481.1	682.0	1259.3	3926.8	4703.8	4473.3	2606.5	1579.9
77.5°	287.6	284.7	308.7	345.7	442.0	496.8	1742.6	2525.3	2337.4	1134.5	691.5
80°	224.8	222.7	237.7	257.9	317.7	313.2	573.4	1004.7	777.6	434.7	336.2
82.5°	177.3	177.3	189.7	190.2	225.4	213.7	299.3	442.5	388.3	253.5	205.9
85°	162.2	162.2	175.2	142.1	147.2	134.8	185.7	262.3	246.2	104.1	89.5
87.5°	81.7	79.4	147.2	125.8	80.0	71.6	90.5	127.0	136.5	57.6	44.8
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: P193171

CATALOG NUMBER: GLEON-AF-03-LED-E1-T3-7030-600

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1428.2	1428.2	1428.2	1428.2	1428.2	1428.2	1428.2	1428.2	1428.2	1428.2
2.5°	1421.6	1421.0	1422.1	1422.7	1427.2	1433.3	1436.1	1440.0	1442.2	1441.1
5°	1404.7	1405.8	1410.3	1413.7	1421.6	1431.7	1437.2	1441.6	1445.6	1444.0
7.5°	1390.8	1393.6	1400.2	1403.1	1407.6	1410.3	1409.8	1411.5	1414.8	1410.9
10°	1382.9	1386.3	1391.3	1387.4	1376.7	1361.7	1347.7	1340.4	1342.7	1339.8
12.5°	1375.1	1379.6	1375.7	1357.2	1327.6	1308.0	1297.4	1298.4	1303.5	1304.7
15°	1370.6	1372.3	1355.6	1320.8	1290.7	1287.8	1293.4	1292.3	1292.9	1292.9
17.5°	1370.6	1366.2	1334.8	1300.1	1287.3	1282.2	1264.9	1243.1	1233.5	1230.3
20°	1377.9	1366.2	1328.1	1305.2	1277.2	1234.1	1188.3	1148.0	1130.1	1125.1
22.5°	1399.7	1379.6	1347.1	1307.4	1228.0	1155.9	1083.1	1035.0	1002.6	996.9
25°	1444.0	1421.6	1384.7	1277.8	1149.6	1046.7	963.8	910.2	877.8	873.3
27.5°	1521.1	1506.5	1404.7	1212.3	1045.6	935.4	858.8	817.4	793.3	791.6
30°	1637.5	1630.2	1394.7	1115.5	917.4	827.4	790.5	766.5	748.5	748.0
32.5°	1823.2	1764.5	1361.7	997.5	800.6	750.7	735.7	721.1	707.1	707.1
35°	2062.2	1873.0	1299.0	871.1	729.6	708.2	689.2	666.3	647.8	646.7
37.5°	2342.9	1940.1	1186.5	769.1	696.0	679.7	651.7	617.7	585.2	579.6
40°	2626.6	1960.3	1028.2	706.6	674.6	651.1	617.1	576.8	545.4	543.8
42.5°	2886.7	1921.7	860.4	663.5	653.5	622.1	586.2	550.4	525.9	525.3
45°	3104.9	1821.6	719.5	622.7	631.1	595.8	563.9	534.9	515.8	511.9
47.5°	3310.2	1680.0	620.4	579.6	608.7	581.3	554.4	526.9	508.5	505.8
50°	3548.5	1527.2	551.1	537.7	589.1	576.3	562.2	533.7	502.9	499.6
52.5°	3837.1	1395.2	496.8	500.7	573.9	582.9	582.4	552.8	499.0	494.5
55°	4159.5	1248.8	455.9	470.5	567.8	595.3	587.4	570.7	502.4	495.7
57.5°	4476.7	1077.6	427.4	447.5	558.9	594.2	563.3	539.3	510.2	500.7
60°	4714.4	847.6	405.6	427.4	539.3	575.7	537.1	505.3	508.5	501.3
62.5°	4730.1	655.1	379.3	410.0	509.7	557.2	519.7	490.0	515.8	509.0
65°	4452.1	495.1	354.1	389.4	477.8	545.4	502.9	481.8	530.9	523.7
67.5°	3748.2	398.4	332.9	368.1	445.9	520.8	487.9	473.8	544.3	531.4
70°	2706.1	339.6	312.2	342.4	417.4	492.9	474.4	459.9	507.9	487.9
72.5°	1665.9	294.2	288.7	308.2	395.5	463.8	454.3	433.5	457.6	441.4
75°	831.9	255.1	262.3	274.7	364.7	430.8	420.6	400.0	403.3	400.0
77.5°	398.4	218.2	231.6	241.1	325.0	393.4	382.6	361.4	357.5	358.1
80°	252.3	182.4	195.2	201.9	290.3	349.6	339.0	317.7	362.5	336.2
82.5°	157.8	148.3	151.7	163.9	252.8	304.3	290.3	271.3	326.6	258.5
85°	87.3	103.5	107.9	118.6	194.7	254.6	240.6	216.6	194.2	190.7
87.5°	52.0	61.5	63.3	71.0	130.9	184.1	162.8	154.4	128.2	127.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)