

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: P194120

Luminaire Tested: **GLEON-AF-02-LED-E1-T4W-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194120
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-02-LED-E1-T4W-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10826 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 129
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

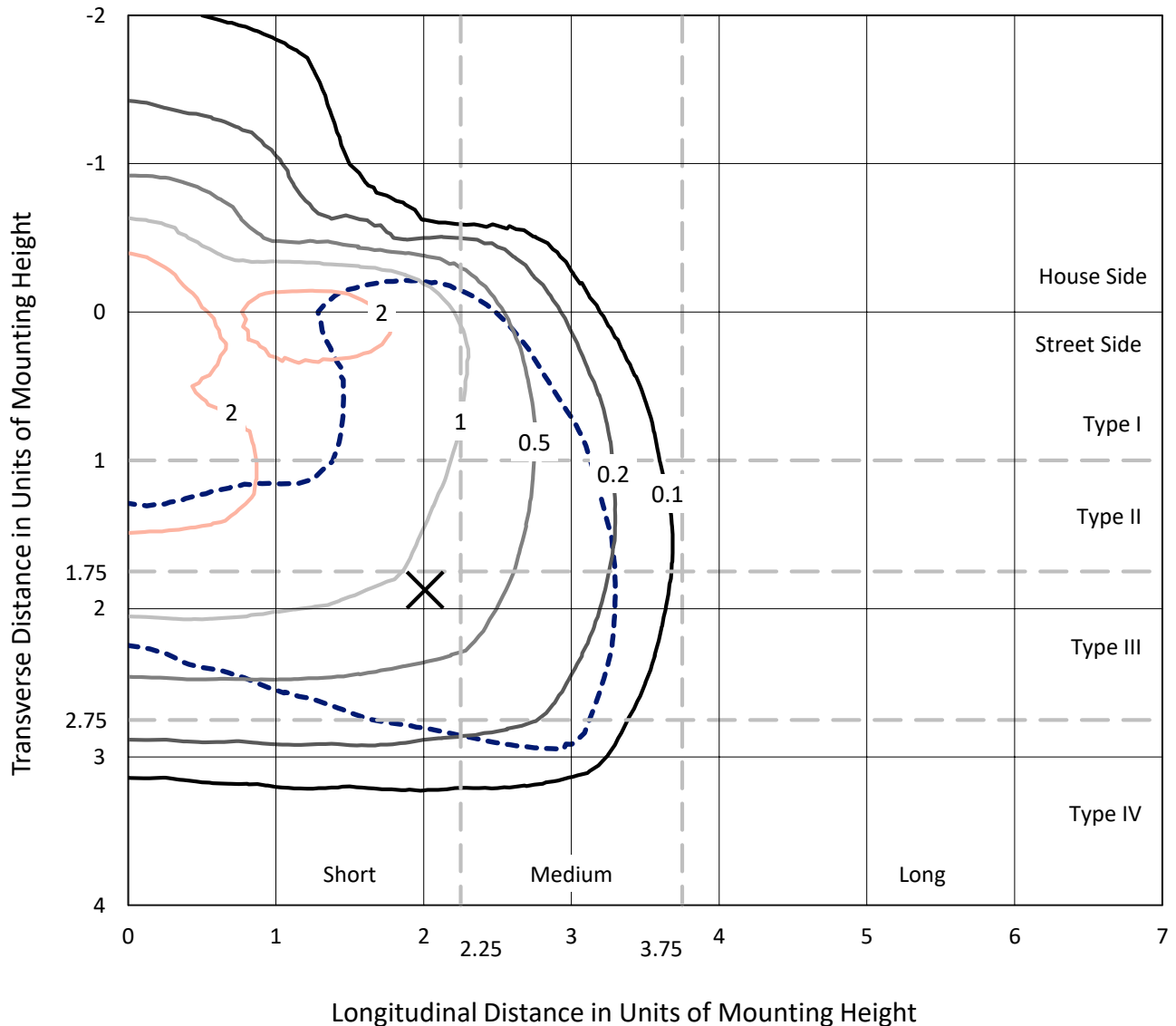


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Iso-Footcandle Lines of Horizontal Illumination

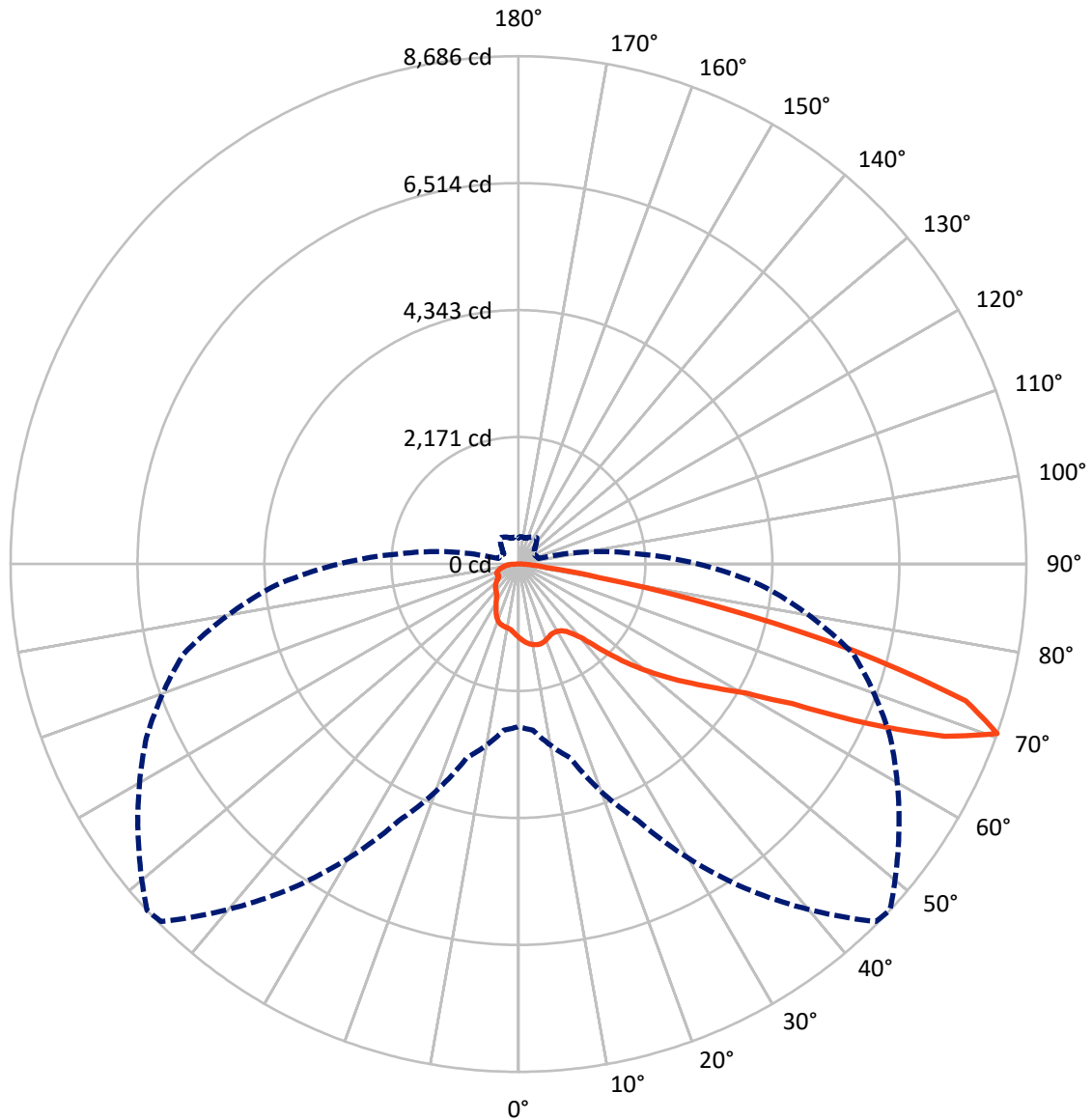
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.6 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2258.5	0.0	2258.5
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	8567.5	0.0	8567.5
	% Fixture	79.1	0.0	79.1
Total	Lumens	10826.0	0.0	10826.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.4	1.1
10°-20°	353.1	3.3
20°-30°	521.4	4.8
30°-40°	757.9	7.0
40°-50°	1364.0	12.6
50°-60°	2362.9	21.8
60°-70°	3372.6	31.2
70°-80°	1731.3	16.0
80°-90°	242.4	2.2
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°	10826.0	100.0
0°-180°	10826.0	100.0



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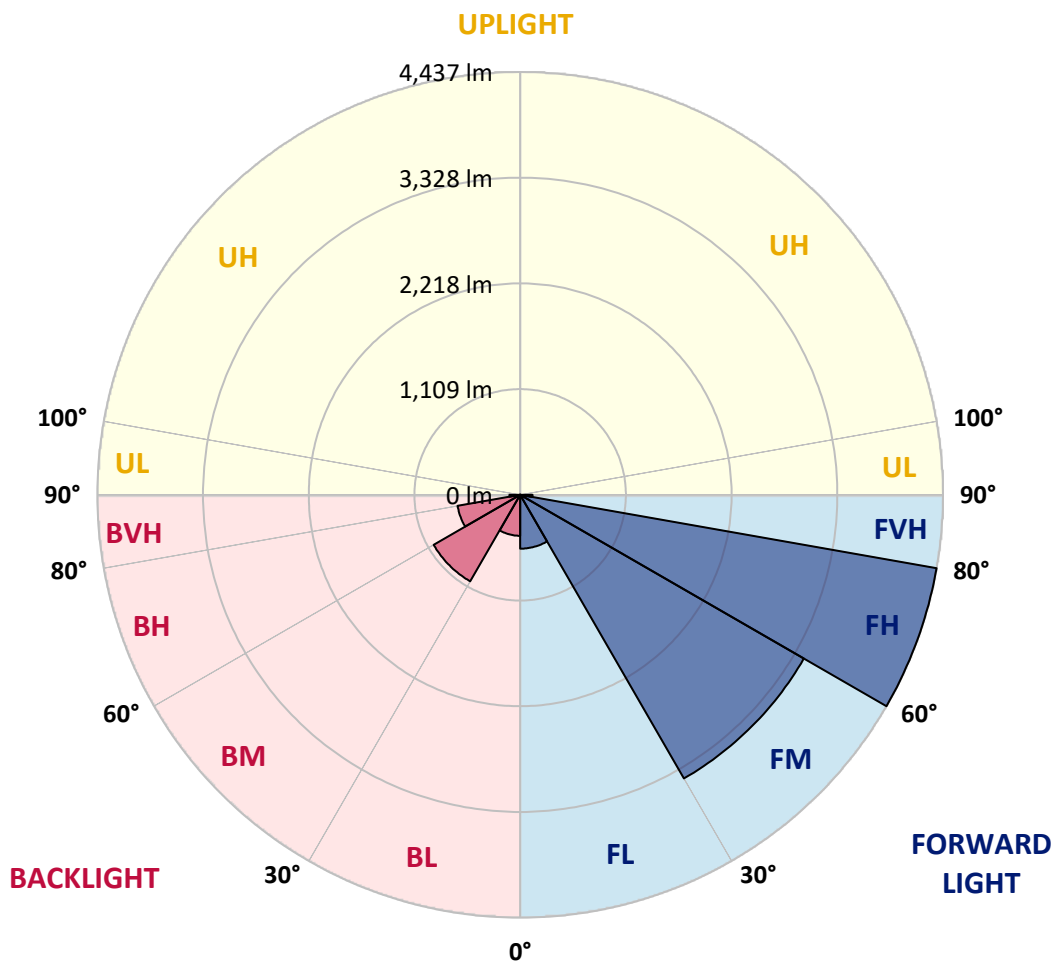
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	564.9	5.2			
FM	(30°-60°)	3436.5	31.7			
FH	(60°-80°)	4436.8	41.0			G2/5000
FVH	(80°-90°)	129.3	1.2			G2/225
BL	(0°-30°)	430.0	4.0	B1/500		
BM	(30°-60°)	1048.3	9.7	B2/2500		
BH	(60°-80°)	667.1	6.2	B2/1000		G2/1000
BVH	(80°-90°)	113.0	1.0			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1256.2	1256.2	1256.2	1256.2	1256.2	1256.2	1256.2	1256.2	1256.2	1256.2	1256.2
2.5°	1329.9	1327.3	1326.2	1324.1	1321.5	1308.3	1305.7	1296.2	1283.0	1269.3	1255.1
5°	1417.3	1416.8	1411.0	1400.5	1383.6	1354.6	1347.8	1324.6	1293.5	1263.5	1233.5
7.5°	1494.2	1489.5	1478.4	1457.3	1427.9	1388.4	1378.9	1346.7	1304.1	1263.0	1222.4
10°	1550.6	1547.9	1523.7	1494.7	1456.3	1412.6	1401.5	1365.7	1318.8	1266.7	1216.1
12.5°	1582.7	1577.4	1549.5	1514.8	1468.9	1426.3	1415.2	1378.9	1326.2	1266.7	1207.2
15°	1580.6	1576.9	1549.0	1511.1	1464.7	1427.3	1417.3	1381.0	1324.6	1261.4	1195.6
17.5°	1538.5	1540.0	1516.3	1478.9	1441.0	1412.6	1403.6	1369.9	1314.1	1250.9	1181.9
20°	1464.7	1472.1	1456.3	1423.1	1402.0	1382.6	1376.8	1348.3	1297.8	1235.6	1167.1
22.5°	1391.0	1397.8	1391.5	1363.6	1360.4	1348.9	1345.7	1325.1	1283.5	1226.1	1158.2
25°	1336.7	1343.1	1342.0	1317.8	1327.3	1326.7	1324.1	1314.1	1280.4	1226.1	1159.8
27.5°	1322.0	1324.1	1322.0	1299.9	1313.0	1323.6	1321.5	1319.9	1289.9	1241.4	1179.8
30°	1372.6	1369.4	1353.1	1308.3	1320.4	1335.2	1333.0	1334.1	1318.3	1281.4	1224.6
32.5°	1574.3	1560.1	1508.4	1382.6	1350.4	1358.3	1359.4	1376.8	1379.4	1343.1	1294.1
35°	1876.1	1860.3	1793.4	1581.6	1443.7	1416.3	1416.3	1442.6	1458.4	1431.5	1402.0
37.5°	2195.8	2178.4	2142.6	1857.6	1639.6	1516.9	1514.2	1532.7	1555.3	1561.6	1569.0
40°	2559.2	2540.7	2550.8	2167.3	1912.9	1691.2	1653.8	1640.6	1701.7	1742.3	1801.3
42.5°	2956.8	2948.4	2952.1	2512.3	2224.2	1951.9	1898.7	1830.8	1904.5	1976.7	2100.4
45°	3325.0	3332.4	3328.7	2881.5	2570.8	2270.0	2213.7	2082.0	2154.2	2277.9	2479.7
47.5°	3647.3	3616.8	3664.2	3285.0	2958.9	2626.1	2556.5	2380.1	2453.3	2606.1	2947.4
50°	4038.7	4034.4	3964.9	3823.2	3428.2	2983.7	2892.6	2688.2	2802.0	3014.2	3536.7
52.5°	4450.0	4373.6	4309.9	4242.0	3925.9	3350.3	3238.6	2995.3	3211.7	3478.8	4255.1
55°	4534.3	4500.0	4579.0	4693.3	4405.8	3731.1	3601.0	3380.3	3673.1	4009.7	5083.6
57.5°	4714.4	4713.9	4877.1	5081.0	4899.8	4135.0	4003.9	3845.4	4191.9	4618.0	5963.2
60°	4836.1	4870.3	5173.7	5569.2	5384.9	4601.7	4481.1	4382.1	4781.8	5298.0	6782.7
62.5°	4899.8	4946.1	5360.1	5767.2	6070.6	5378.5	5257.9	5115.2	5562.4	6043.8	7262.0
65°	4634.9	4726.0	5331.1	5938.4	6671.0	6637.9	6583.6	6332.9	6538.3	6633.1	7088.7
67.5°	3901.7	3994.9	4699.6	5778.8	7099.8	7852.4	7864.0	7435.8	7138.7	6683.7	5960.0
70°	2779.9	2853.1	3436.1	4845.0	6773.2	8646.1	8685.6	7944.0	7019.2	5927.4	4164.0
72.5°	1319.9	1364.7	1916.6	3153.3	5374.9	7921.9	7998.3	7295.2	5968.4	4388.4	2271.6
75°	485.1	498.8	647.8	1341.5	3117.5	5842.0	5932.1	5229.5	3956.5	2184.7	865.3
77.5°	290.7	299.7	363.4	566.2	1226.1	3339.2	3472.5	2844.1	1729.1	813.2	425.6
80°	203.3	209.6	260.7	352.4	579.4	1272.5	1391.0	1160.8	688.9	514.6	309.7
82.5°	137.5	140.6	183.3	238.1	385.0	454.5	490.3	516.2	464.5	382.9	196.5
85°	90.1	93.2	124.3	157.0	244.9	234.9	240.2	303.9	339.2	260.2	109.0
87.5°	51.6	53.7	74.8	83.7	120.1	99.5	100.6	160.1	217.0	175.4	66.4
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°	1256.2	1256.2	1256.2	1256.2	1256.2	1256.2	1256.2	1256.2	1256.2	1256.2	1256.2
2.5°	1251.4	1244.6	1229.3	1219.8	1210.9	1208.8	1205.1	1204.5	1204.0	1204.0	1202.4
5°	1223.5	1211.9	1188.2	1175.0	1164.0	1162.9	1162.4	1165.0	1166.1	1167.1	1165.6
7.5°	1205.6	1189.8	1160.3	1141.3	1128.2	1125.0	1130.3	1142.4	1150.3	1153.4	1151.9
10°	1194.5	1175.0	1140.8	1120.3	1109.2	1107.6	1114.5	1128.7	1145.0	1151.3	1150.8
12.5°	1181.9	1159.8	1123.4	1101.8	1095.5	1098.7	1107.6	1120.8	1137.6	1147.7	1148.2
15°	1169.2	1143.4	1106.0	1087.1	1084.5	1088.7	1097.1	1107.1	1120.3	1130.3	1131.3
17.5°	1154.0	1127.1	1089.7	1070.2	1068.1	1070.2	1070.8	1076.0	1084.5	1093.9	1096.6
20°	1137.6	1110.3	1071.3	1051.8	1042.3	1033.9	1024.4	1025.5	1028.1	1037.6	1039.7
22.5°	1126.1	1098.7	1057.1	1030.2	1004.9	979.6	960.7	958.0	959.1	967.0	969.6
25°	1127.1	1098.1	1053.4	1007.0	951.7	911.2	885.9	881.7	881.2	886.9	890.6
27.5°	1147.7	1118.7	1067.1	983.3	893.8	833.7	806.9	803.7	799.5	801.1	805.3
30°	1193.5	1166.6	1100.3	959.1	831.1	757.9	730.0	726.8	721.0	718.4	721.6
32.5°	1268.3	1246.1	1148.7	935.9	768.4	693.1	664.7	657.8	654.1	651.0	653.6
35°	1392.6	1383.1	1213.5	910.6	713.1	643.1	617.3	606.7	601.5	607.3	611.5
37.5°	1587.4	1592.7	1298.3	871.1	670.5	609.9	588.3	576.2	568.3	573.0	577.8
40°	1863.4	1867.1	1392.0	815.3	633.6	590.4	567.2	556.2	545.1	536.7	536.2
42.5°	2225.8	2188.4	1484.2	754.7	590.9	578.3	552.5	538.8	521.9	498.8	494.0
45°	2655.6	2524.4	1554.3	685.2	543.0	563.6	536.2	517.2	490.9	465.6	463.0
47.5°	3150.7	2885.2	1588.5	613.1	498.2	542.0	516.2	486.1	453.0	440.3	438.7
50°	3755.3	3313.4	1604.8	543.0	459.3	513.5	487.2	451.9	424.0	421.4	419.8
52.5°	4443.7	3828.5	1610.1	485.6	427.1	476.7	463.5	429.3	407.1	409.2	409.2
55°	5164.2	4360.5	1538.5	444.0	397.7	438.7	447.7	420.3	401.9	410.3	413.5
57.5°	5825.7	4831.8	1313.0	411.9	369.7	409.8	441.9	428.7	416.1	450.3	452.4
60°	6333.4	5110.5	980.7	382.9	349.2	399.8	457.2	460.9	464.0	545.6	556.7
62.5°	6439.8	5017.8	674.2	360.3	339.7	408.2	485.1	485.6	481.9	538.8	545.6
65°	5951.6	4431.6	490.3	347.6	331.8	423.5	508.8	497.7	473.5	516.7	504.0
67.5°	4726.5	3338.7	408.2	338.1	320.2	422.4	534.1	508.8	468.8	506.1	485.6
70°	3068.0	2018.8	363.4	330.2	306.5	402.4	548.8	507.7	455.1	470.9	446.6
72.5°	1496.8	902.7	333.4	318.6	292.3	374.5	548.3	498.2	440.8	439.8	426.6
75°	585.7	413.5	306.0	301.3	268.1	342.9	533.5	484.6	424.0	407.1	402.4
77.5°	342.9	294.9	271.2	275.5	239.1	311.3	511.9	460.9	400.8	380.8	375.5
80°	249.7	220.7	231.2	238.1	204.4	279.7	483.0	431.9	375.0	385.0	377.6
82.5°	160.1	142.2	187.5	194.3	170.1	247.5	451.4	401.3	338.7	307.6	300.2
85°	81.6	90.1	139.6	148.0	131.1	203.3	412.9	360.8	297.6	256.0	260.2
87.5°	45.8	61.6	89.0	99.5	92.7	156.4	335.0	297.6	242.8	197.5	173.8
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)