

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: P526464

Luminaire Tested: **GALN-SA1B-830-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526464
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-830-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3878 lumens
Efficiency: N/A
Efficacy: 88.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 44
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: 24 FT

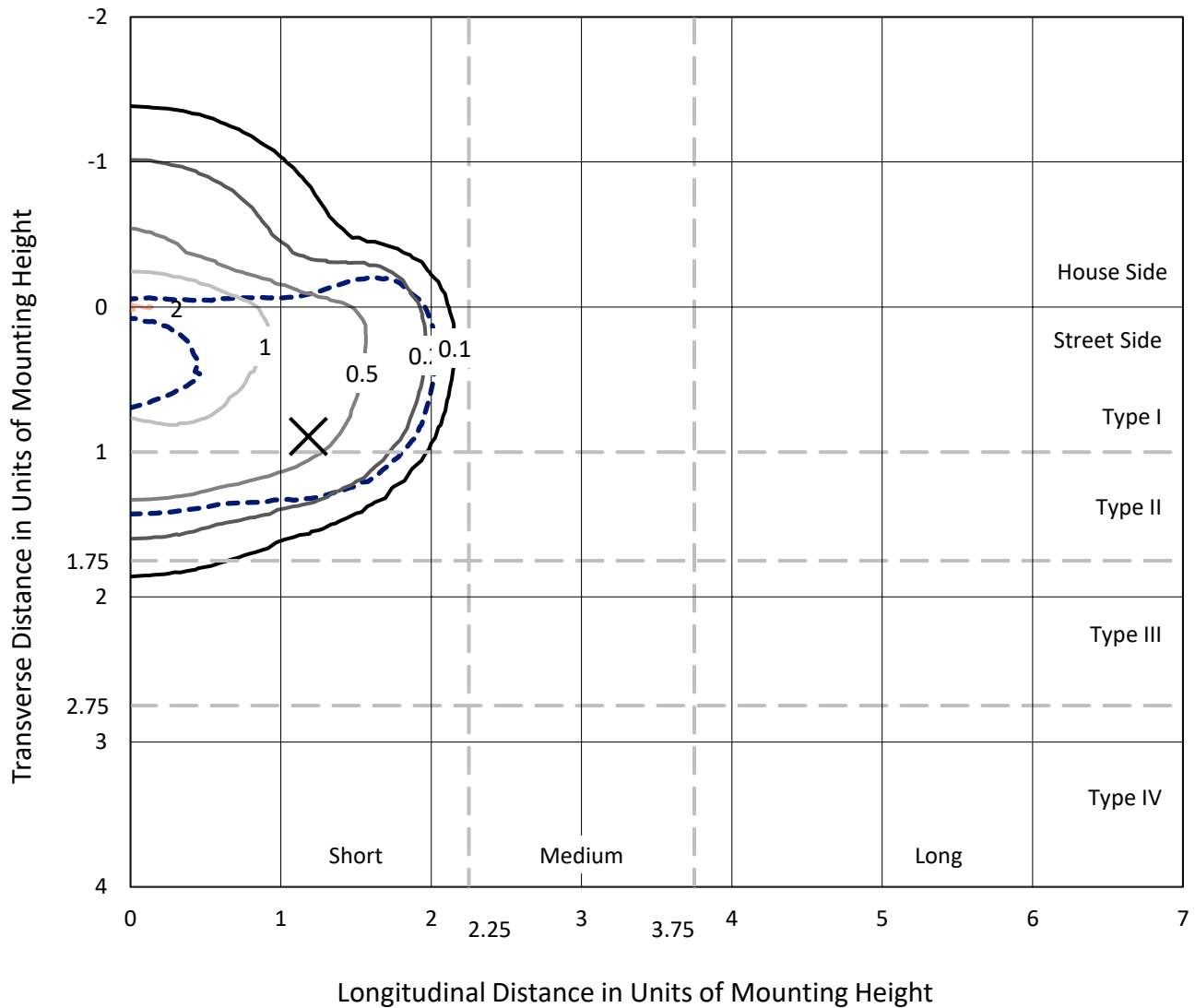


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 --- 1/2 Max cd

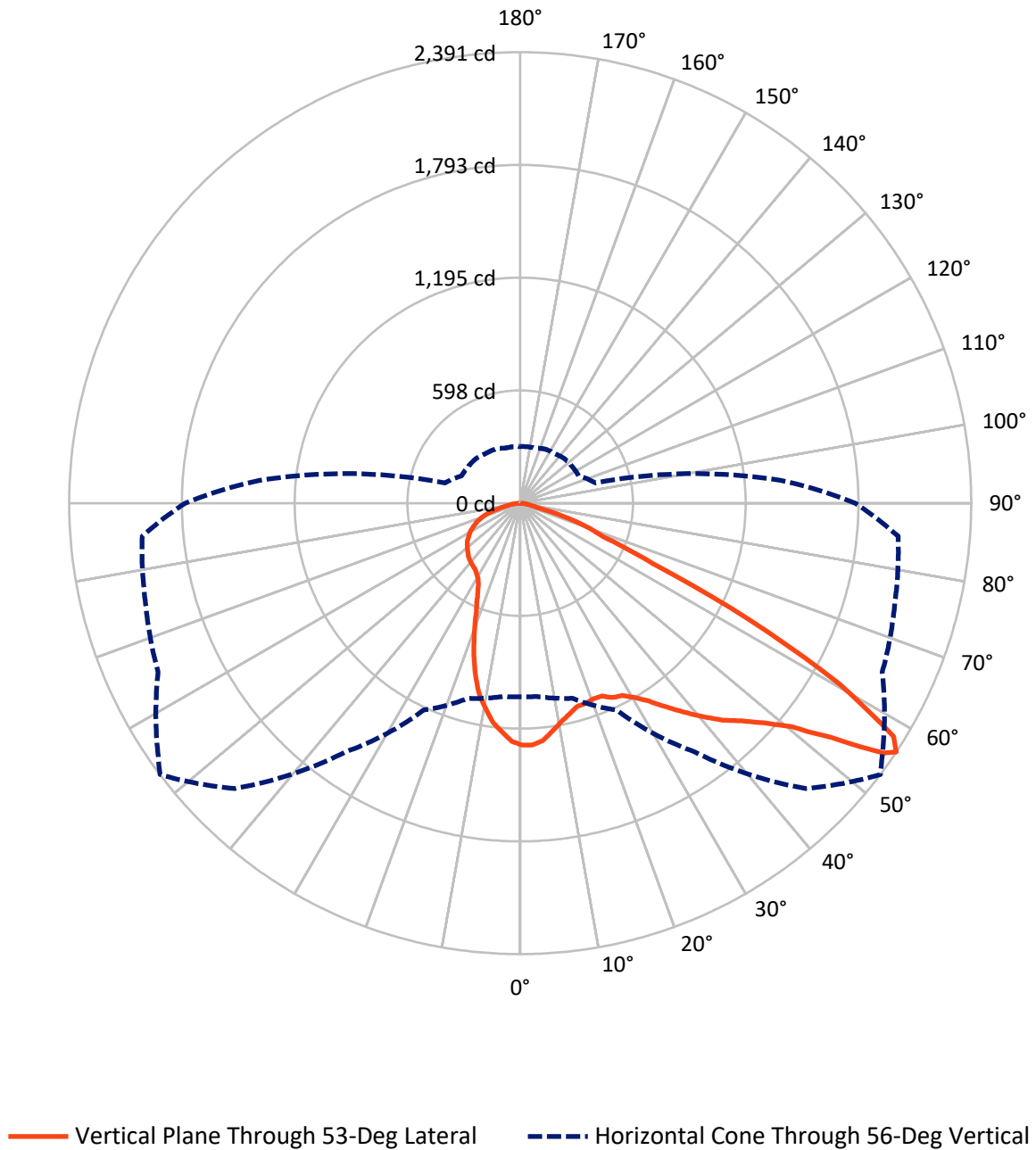


Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1131.7	0.0	1131.7
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	2746.3	0.0	2746.3
	% Fixture	70.8	0.0	70.8
Total	Lumens	3878.0	0.0	3878.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.6	2.9
10°-20°	283.7	7.3
20°-30°	418.3	10.8
30°-40°	597.7	15.4
40°-50°	822.6	21.2
50°-60°	972.1	25.1
60°-70°	518.1	13.4
70°-80°	131.4	3.4
80°-90°	20.5	0.5
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°	3878.0	100.0
0°-180°	3878.0	100.0

Coefficient of Utilization



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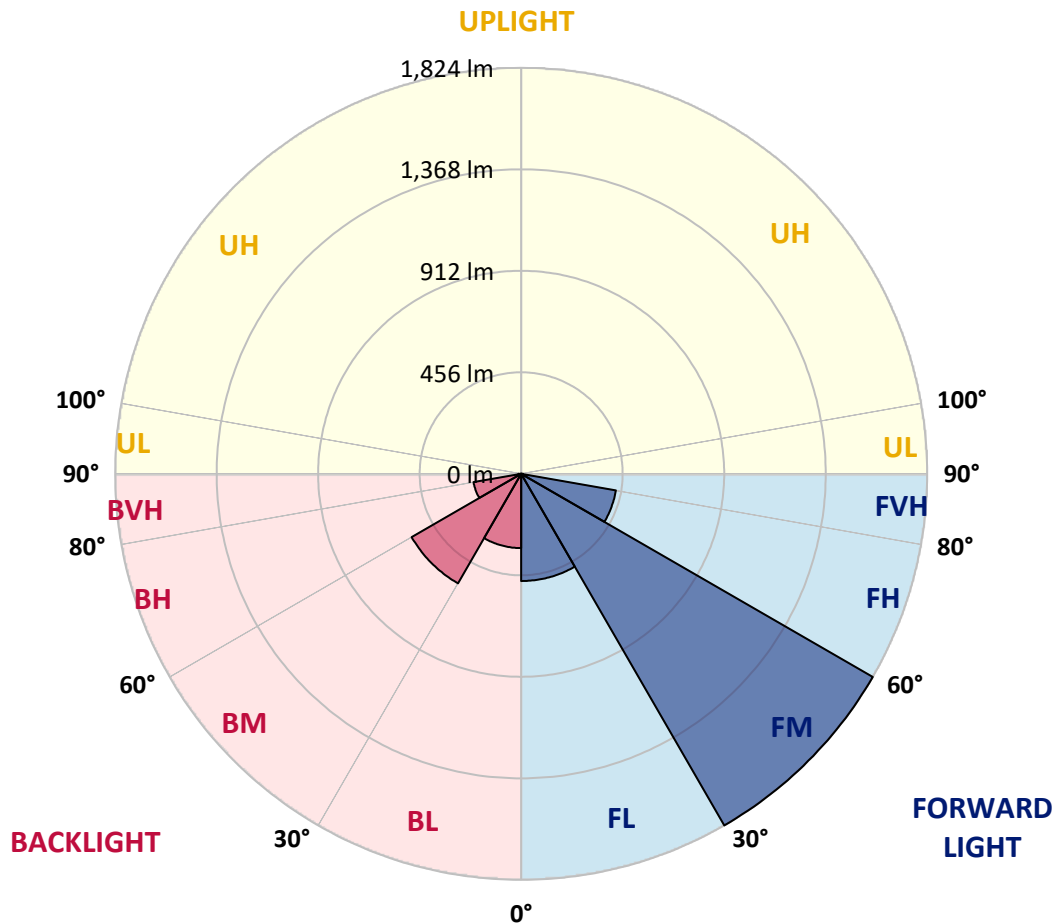
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	481.8	12.4			
FM	(30°-60°)	1824.1	47.0			
FH	(60°-80°)	432.2	11.1			G0/660
FVH	(80°-90°)	8.2	0.2			G0/10
BL	(0°-30°)	333.8	8.6	B1/500		
BM	(30°-60°)	568.3	14.7	B1/1000		
BH	(60°-80°)	217.4	5.6	B1/500		G1/500
BVH	(80°-90°)	12.3	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-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	1283.0	1283.0	1283.0	1283.0	1283.0	1283.0	1283.0	1283.0	1283.0	1283.0	1283.0
2.5°	1267.1	1256.1	1262.6	1260.1	1280.5	1286.5	1283.5	1286.0	1297.4	1291.9	1280.5
5°	1184.0	1199.4	1202.4	1209.9	1221.8	1245.2	1263.6	1268.6	1274.0	1299.4	1296.9
7.5°	1108.4	1118.8	1113.4	1135.2	1161.1	1198.9	1221.3	1225.3	1275.5	1289.5	1299.9
10°	1060.6	1050.2	1075.0	1081.0	1110.4	1153.7	1180.5	1196.9	1242.7	1297.9	1304.4
12.5°	1016.3	1012.9	1027.8	1044.7	1077.5	1122.3	1149.7	1156.1	1226.8	1285.0	1315.3
15°	983.5	979.5	994.5	1006.9	1045.2	1085.0	1119.8	1138.2	1209.4	1277.5	1305.9
17.5°	957.6	957.1	965.6	988.0	1027.3	1060.6	1116.8	1117.8	1200.4	1289.0	1313.8
20°	956.2	955.7	957.1	982.0	1017.8	1058.6	1107.4	1116.3	1200.4	1281.0	1314.3
22.5°	968.6	960.6	969.6	985.5	1011.4	1062.1	1110.9	1130.8	1229.3	1320.3	1336.7
25°	988.5	990.5	995.5	1000.9	1015.8	1070.1	1141.7	1158.1	1263.1	1354.1	1367.6
27.5°	1024.8	1023.8	1025.8	1028.8	1041.7	1077.5	1154.1	1196.4	1333.7	1414.3	1400.9
30°	1078.0	1074.6	1082.5	1093.0	1081.0	1101.4	1195.4	1227.3	1399.4	1475.0	1438.2
32.5°	1126.3	1139.2	1154.1	1158.6	1144.2	1148.2	1250.2	1282.5	1454.1	1549.6	1484.0
35°	1186.5	1196.9	1216.8	1230.8	1228.3	1216.3	1324.8	1367.6	1533.2	1604.4	1532.2
37.5°	1245.2	1257.6	1290.5	1331.7	1308.9	1303.4	1404.4	1439.7	1557.6	1633.7	1567.6
40°	1339.7	1339.2	1395.9	1417.3	1437.7	1428.3	1487.0	1498.9	1570.5	1627.2	1568.5
42.5°	1450.6	1443.7	1501.4	1534.7	1561.1	1562.1	1573.0	1569.0	1576.5	1594.4	1558.1
45°	1556.1	1571.0	1629.2	1688.9	1715.3	1718.3	1645.7	1638.2	1587.0	1585.0	1538.2
47.5°	1685.0	1688.4	1736.2	1814.8	1876.0	1855.1	1739.7	1723.3	1632.7	1648.1	1571.5
50°	1692.4	1718.3	1761.1	1853.6	2041.6	2036.2	1861.6	1830.7	1706.3	1737.7	1664.6
52.5°	1536.2	1530.2	1581.0	1732.2	2029.2	2216.3	2063.5	1989.9	1864.5	1840.7	1815.3
55°	1170.6	1184.5	1229.3	1382.0	1762.1	2218.8	2338.6	2278.4	2033.7	1992.9	1963.5
56°	1026.8	1028.8	1071.1	1210.4	1607.8	2139.7	2390.9	2342.1	2117.8	2055.6	2010.8
57.5°	851.2	839.7	861.6	937.7	1357.1	1972.5	2333.7	2381.4	2216.3	2123.2	2061.1
60°	670.1	667.6	658.7	672.6	857.7	1486.0	1942.7	2050.1	2206.3	2059.6	1974.0
62.5°	547.2	534.8	552.7	572.6	596.0	921.8	1365.1	1428.3	1751.6	1644.2	1483.0
65°	424.3	418.4	440.8	505.4	519.4	585.5	777.6	826.3	1034.3	1015.8	894.5
67.5°	292.0	293.0	312.4	410.9	481.6	475.6	476.1	501.5	539.8	401.0	349.2
70°	185.1	184.6	195.0	264.7	387.5	391.5	371.6	364.2	345.2	208.9	221.4
72.5°	118.9	115.4	120.9	146.3	200.5	231.8	238.8	243.3	200.0	164.2	178.1
75°	67.2	63.7	61.7	68.2	79.1	91.5	100.5	103.5	115.9	124.4	131.8
77.5°	20.4	18.4	22.4	29.8	39.3	52.7	64.2	66.2	78.1	88.1	95.5
80°	9.0	9.9	13.9	19.9	27.9	37.3	45.3	48.3	56.2	63.7	65.7
82.5°	5.5	6.0	9.5	13.4	19.4	26.4	32.3	33.3	41.3	47.3	48.8
85°	2.0	2.5	5.0	8.0	12.4	16.9	16.9	18.4	16.9	16.9	18.4
87.5°	0.0	0.0	0.5	1.0	1.0	1.5	2.0	2.0	2.5	3.0	3.5
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°	1283.0	1283.0	1283.0	1283.0	1283.0	1283.0	1283.0	1283.0	1283.0	1283.0	1283.0
2.5°	1286.5	1284.0	1280.0	1265.6	1264.1	1259.6	1234.7	1230.8	1234.7	1222.8	1223.8
5°	1284.0	1291.5	1261.6	1247.2	1220.3	1200.9	1178.5	1167.1	1146.7	1133.8	1148.2
7.5°	1294.9	1291.9	1254.6	1223.3	1183.0	1133.8	1094.5	1072.1	1036.2	1026.3	1033.8
10°	1291.0	1275.0	1231.3	1190.0	1113.9	1070.6	1006.9	945.2	911.4	894.0	891.5
12.5°	1285.5	1281.0	1207.9	1136.7	1056.6	965.6	876.1	817.9	762.6	738.8	742.2
15°	1291.9	1254.1	1164.1	1074.1	967.6	848.2	751.7	676.6	638.3	622.8	622.8
17.5°	1289.0	1241.2	1143.2	1003.9	869.1	727.8	621.8	576.6	560.7	560.7	565.1
20°	1290.5	1249.7	1100.9	933.8	752.7	612.9	535.8	519.4	526.3	528.8	531.3
22.5°	1298.9	1221.8	1059.6	856.7	644.7	524.3	486.5	487.0	499.5	512.9	510.4
25°	1309.4	1210.9	1009.4	780.0	562.1	481.1	469.1	467.6	477.1	484.0	485.0
27.5°	1300.4	1192.0	958.1	684.5	494.5	452.2	449.7	450.7	453.7	467.6	463.2
30°	1329.8	1197.4	894.0	604.4	457.2	442.8	439.8	438.3	442.8	446.7	443.3
32.5°	1366.1	1178.0	846.2	527.3	438.8	435.8	429.8	427.8	430.3	426.3	428.3
35°	1382.0	1174.5	784.0	472.1	424.3	421.9	418.4	417.9	418.4	414.9	411.9
37.5°	1390.9	1191.0	712.9	446.7	415.4	417.9	409.9	408.9	400.0	402.0	403.5
40°	1406.4	1165.6	655.2	422.4	409.9	404.9	398.0	396.5	390.5	387.0	390.5
42.5°	1384.0	1158.1	598.5	411.9	402.0	396.5	391.5	383.1	381.1	378.1	376.1
45°	1366.1	1115.3	547.7	399.0	392.5	389.5	380.1	371.1	363.7	366.6	362.2
47.5°	1379.5	1100.4	497.5	388.0	379.6	376.1	366.6	359.7	352.2	348.7	347.7
50°	1433.2	1128.3	455.2	380.1	368.6	366.6	354.2	346.2	339.3	336.8	337.8
52.5°	1561.6	1204.4	426.3	363.7	358.2	349.2	342.3	332.3	327.8	319.9	324.9
55°	1724.3	1328.3	418.9	348.2	345.2	337.3	327.8	320.4	311.9	305.5	304.0
56°	1776.5	1387.5	412.9	342.3	337.3	332.8	320.4	315.9	302.5	301.0	300.0
57.5°	1818.8	1439.7	413.9	330.8	325.8	321.9	314.4	303.5	294.5	289.0	291.5
60°	1723.3	1347.7	395.0	313.4	312.4	305.0	294.5	289.5	278.6	272.1	270.6
62.5°	1281.0	914.9	320.4	291.0	290.5	282.6	270.6	265.2	263.2	254.2	254.2
65°	737.8	573.6	277.1	272.6	268.6	260.7	248.7	244.3	239.3	236.3	233.8
67.5°	314.9	297.5	251.7	251.2	246.7	236.8	224.9	217.9	211.4	205.5	208.4
70°	228.3	231.8	227.3	224.9	219.4	207.0	196.5	188.0	178.1	174.1	177.1
72.5°	181.1	188.5	195.0	195.5	189.0	174.6	163.2	151.7	140.8	135.3	137.8
75°	137.3	142.3	148.7	150.2	140.8	130.8	119.9	108.0	99.5	93.0	94.0
77.5°	99.0	98.0	104.0	103.0	98.5	91.5	81.6	70.6	61.2	55.2	55.7
80°	67.7	69.1	72.6	72.1	66.7	62.2	54.7	45.8	38.8	33.8	32.8
82.5°	47.3	49.7	52.7	50.2	45.8	41.3	35.8	29.4	23.9	19.9	18.9
85°	16.9	19.4	22.4	23.9	25.4	24.4	20.4	16.4	11.9	9.9	9.5
87.5°	3.5	4.0	4.5	4.5	4.5	4.0	3.5	3.5	3.0	1.5	1.5
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)