

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: P320135

Luminaire Tested: **GLEON-SA1D-827-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320135
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA1D-827-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5674 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

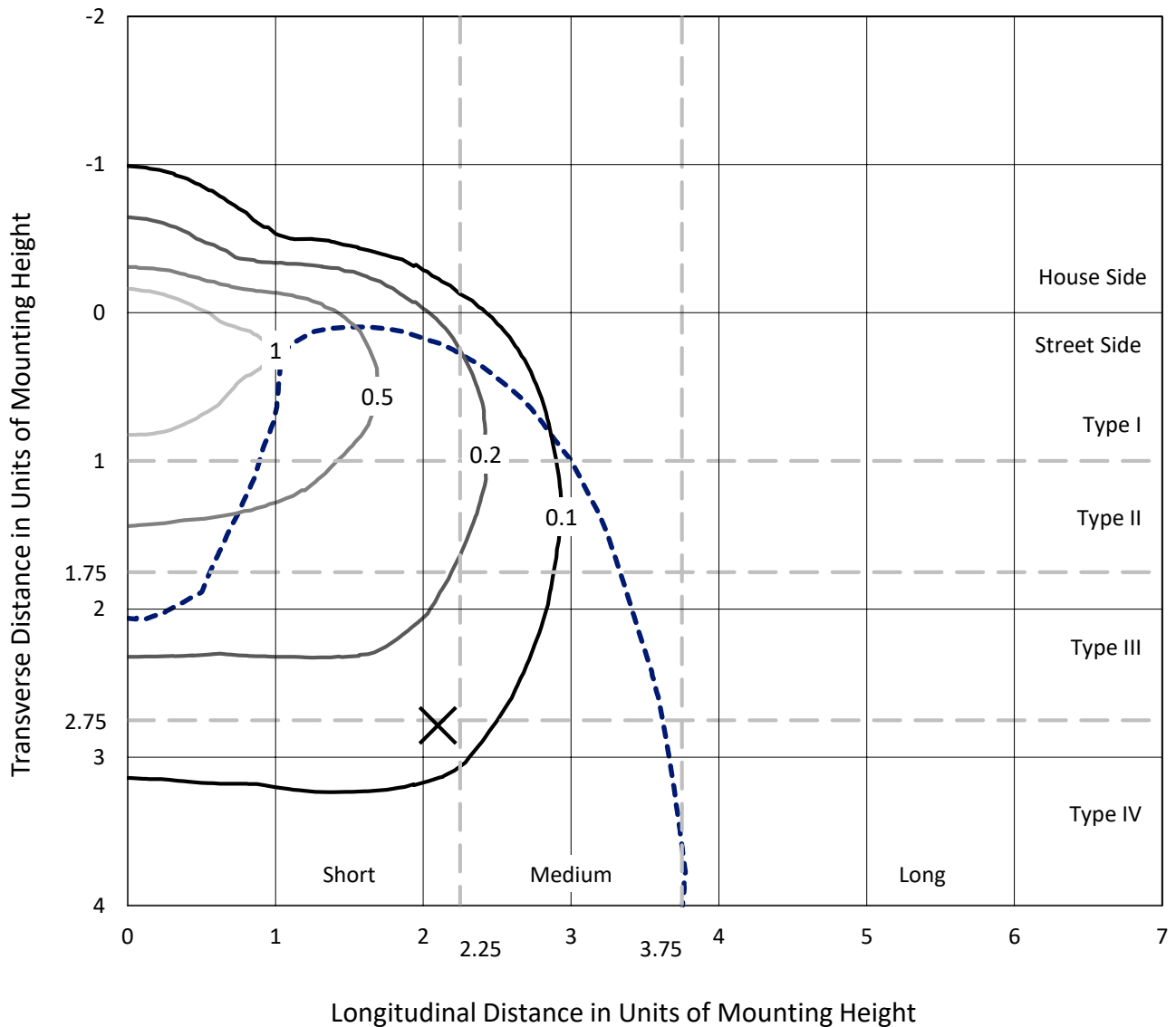
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

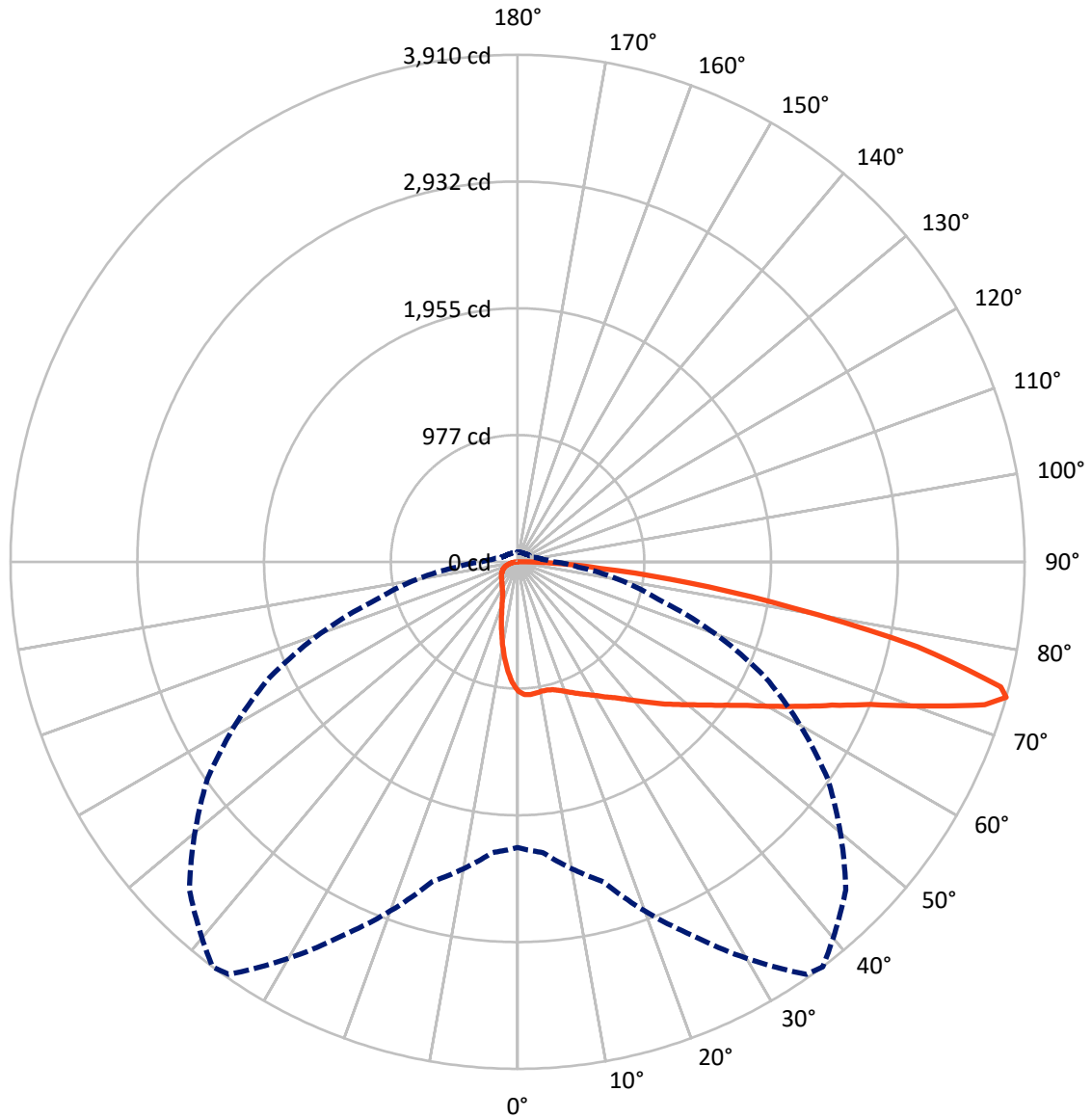
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	780.7	0.0	780.7
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	4893.3	0.0	4893.3
	% Fixture	86.2	0.0	86.2
Total	Lumens	5674.0	0.0	5674.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.0	1.6
10°-20°	225.7	4.0
20°-30°	347.7	6.1
30°-40°	505.6	8.9
40°-50°	744.2	13.1
50°-60°	1045.1	18.4
60°-70°	1322.7	23.3
70°-80°	1164.7	20.5
80°-90°	230.3	4.1
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°	5674.0	100.0
0°-180°	5674.0	100.0

Coefficient of Utilization



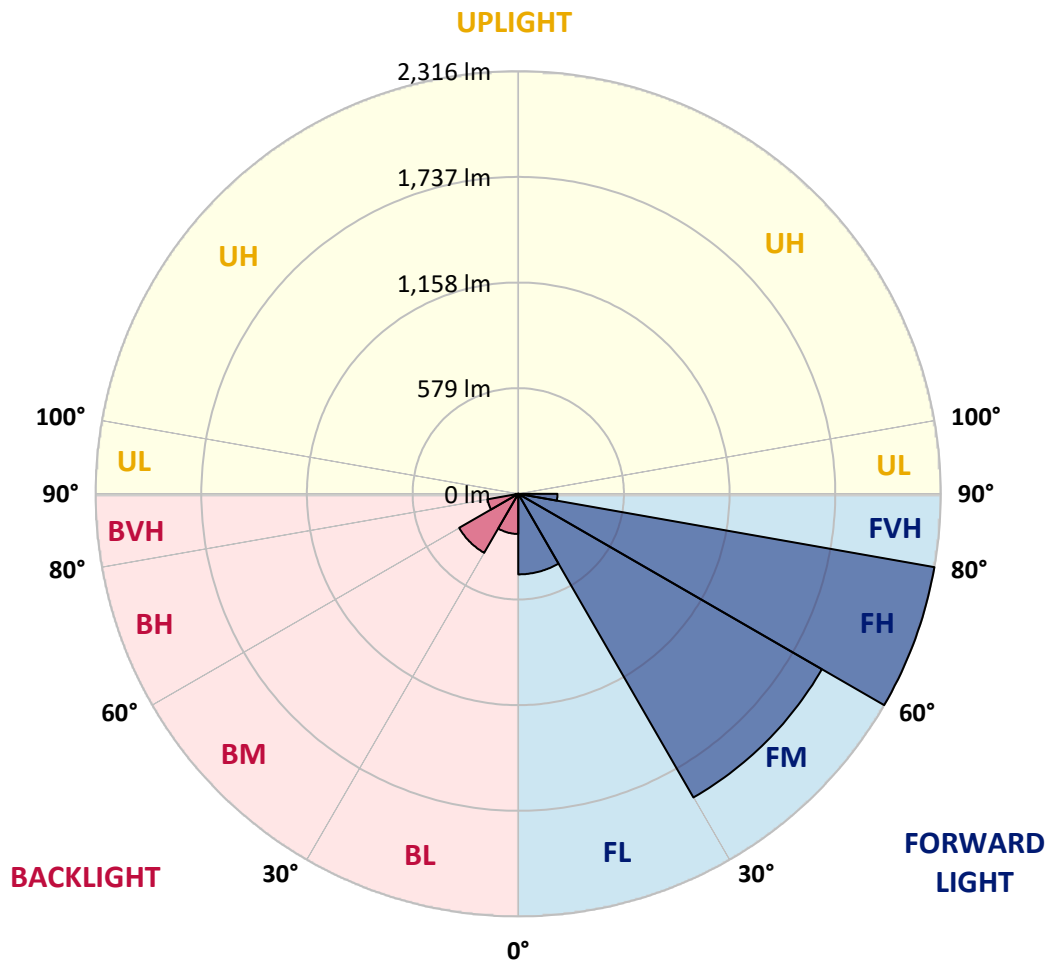
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	441.5	7.8			
FM (30°-60°)	1921.3	33.9			
FH (60°-80°)	2315.8	40.8			G2/5000
FVH (80°-90°)	214.7	3.8			G2/225
BL (0°-30°)	219.9	3.9	B1/500		
BM (30°-60°)	373.6	6.6	B1/1000		
BH (60°-80°)	171.6	3.0	B1/500		G1/500
BVH (80°-90°)	15.6	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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	999.7	999.7	999.7	999.7	999.7	999.7	999.7	999.7	999.7	999.7	999.7
2.5°	1033.9	1034.1	1033.9	1032.3	1028.5	1025.3	1022.7	1018.9	1010.5	1004.1	994.5
5°	1043.7	1042.5	1041.7	1038.7	1032.7	1029.1	1024.1	1016.9	1003.1	990.3	974.8
7.5°	1039.1	1037.7	1035.9	1032.3	1025.5	1022.5	1015.5	1006.1	989.5	972.8	950.4
10°	1024.9	1024.5	1023.7	1022.9	1017.1	1014.7	1008.3	998.3	981.9	961.6	935.4
12.5°	1009.1	1010.1	1013.3	1017.5	1014.9	1013.7	1009.7	1002.9	986.1	964.2	932.6
15°	999.1	1001.9	1010.5	1021.5	1023.7	1023.3	1022.3	1017.9	1000.1	975.8	939.0
17.5°	995.7	1000.3	1016.7	1034.9	1041.3	1042.7	1043.1	1035.5	1015.7	989.9	945.6
20°	1001.9	1007.7	1031.7	1056.7	1066.9	1067.7	1065.9	1052.7	1030.5	1002.1	949.2
22.5°	1020.7	1025.9	1055.9	1084.1	1095.7	1096.9	1091.5	1071.5	1046.1	1016.5	954.2
25°	1056.9	1063.3	1093.3	1121.5	1127.5	1127.7	1119.9	1095.1	1066.5	1036.7	965.0
27.5°	1104.1	1110.5	1137.4	1165.0	1161.8	1160.0	1149.4	1124.7	1093.1	1064.5	984.1
30°	1156.6	1163.6	1189.2	1208.8	1201.2	1197.6	1189.0	1157.0	1130.1	1102.5	1013.5
32.5°	1211.0	1217.4	1239.8	1253.2	1243.6	1242.0	1229.0	1199.8	1178.2	1160.4	1061.1
35°	1266.8	1271.4	1293.3	1300.9	1288.1	1287.7	1284.1	1257.4	1243.8	1252.2	1130.3
37.5°	1323.7	1324.9	1343.7	1344.1	1340.3	1341.9	1345.7	1328.9	1332.7	1358.9	1220.2
40°	1374.5	1377.7	1391.3	1395.5	1402.1	1407.7	1426.7	1415.7	1445.0	1491.4	1332.1
42.5°	1412.1	1418.3	1440.0	1450.8	1472.2	1481.0	1507.8	1518.0	1577.2	1646.7	1465.2
45°	1443.8	1453.4	1488.4	1510.6	1546.8	1562.2	1600.5	1634.7	1726.5	1815.2	1605.3
47.5°	1478.2	1490.4	1534.2	1576.6	1625.7	1643.1	1712.9	1764.0	1885.7	1984.7	1737.4
50°	1528.8	1538.2	1581.0	1647.5	1708.9	1731.3	1827.8	1901.1	2047.6	2146.2	1852.0
52.5°	1599.3	1595.7	1631.9	1725.3	1807.6	1835.2	1950.5	2047.0	2211.7	2292.3	1948.7
55°	1670.3	1664.3	1689.7	1806.6	1922.7	1951.7	2085.6	2193.5	2367.8	2423.8	2022.9
57.5°	1749.2	1737.8	1759.2	1898.3	2053.8	2088.4	2236.9	2349.2	2521.3	2530.1	2070.0
60°	1830.6	1815.2	1839.2	2012.1	2220.3	2261.1	2414.0	2501.1	2666.0	2615.3	2085.2
62.5°	1901.7	1890.9	1927.9	2139.0	2408.0	2452.8	2587.9	2662.6	2808.7	2650.6	2030.5
65°	1963.9	1965.7	2029.7	2281.7	2617.3	2665.0	2787.4	2861.7	2921.1	2629.7	1902.3
67.5°	2038.0	2048.2	2157.4	2469.6	2880.7	2933.1	3077.6	3078.8	2983.8	2506.5	1650.1
70°	2146.2	2167.2	2333.1	2730.2	3255.2	3327.2	3438.7	3206.3	2895.7	2172.8	1298.3
72.5°	2242.1	2281.3	2519.9	3028.4	3711.7	3766.3	3650.0	3132.7	2527.3	1628.3	808.9
74°	2203.1	2251.7	2553.9	3175.3	3883.6	3909.8	3578.6	2918.1	2107.2	1127.7	470.1
75°	2119.2	2172.0	2504.3	3173.9	3861.8	3847.2	3406.3	2672.8	1735.4	769.1	312.8
77.5°	1710.3	1766.0	2110.2	2720.2	3166.5	3152.7	2616.7	1793.0	760.1	252.2	158.9
80°	994.3	1036.9	1309.9	1727.5	2135.2	2160.2	1720.9	887.2	299.0	141.7	107.7
82.5°	441.7	471.1	632.8	881.8	1288.5	1320.7	901.2	464.9	184.7	86.1	64.8
85°	289.8	311.6	384.1	419.9	613.6	635.6	441.1	362.0	121.9	47.4	47.6
87.5°	208.5	229.4	285.4	249.2	281.6	266.6	240.0	335.0	49.0	27.0	16.0
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°	999.7	999.7	999.7	999.7	999.7	999.7	999.7	999.7	999.7	999.7	999.7
2.5°	990.3	987.1	979.9	966.4	958.8	952.4	941.8	935.6	932.8	932.6	933.8
5°	965.8	958.4	939.8	917.0	898.8	882.2	861.6	849.2	840.4	835.2	836.6
7.5°	937.2	925.6	896.4	860.0	830.8	798.7	766.9	747.9	733.1	722.1	724.1
10°	917.6	901.6	859.0	806.7	758.1	711.3	667.6	641.4	620.6	604.6	605.8
12.5°	911.0	889.4	830.4	760.5	692.3	628.4	571.2	531.0	509.7	491.5	492.9
15°	912.0	883.0	806.5	718.9	633.2	552.6	483.3	436.3	407.3	394.7	394.9
17.5°	912.8	875.6	781.3	674.4	574.6	481.9	406.5	359.0	331.6	320.0	320.2
20°	910.2	863.6	750.1	623.2	513.5	416.9	344.0	303.6	282.8	273.8	273.8
22.5°	906.8	849.4	714.9	571.8	453.1	360.6	299.2	268.4	256.4	250.4	250.2
25°	908.4	838.8	678.9	519.1	397.5	315.6	269.4	249.0	241.0	237.2	237.0
27.5°	917.0	833.8	645.8	466.5	349.0	281.8	249.4	235.0	229.8	227.4	227.4
30°	932.6	833.8	611.2	421.7	308.6	256.8	234.0	224.3	220.7	219.1	219.1
32.5°	959.8	838.4	577.8	377.3	276.4	237.2	221.3	214.7	211.9	211.1	211.1
35°	1006.5	854.0	545.2	335.4	250.4	221.3	209.1	205.3	203.3	203.1	203.7
37.5°	1072.3	885.8	514.7	304.4	232.0	208.3	198.9	195.9	194.7	195.7	196.5
40°	1155.0	929.0	486.9	276.4	218.1	197.9	189.5	187.5	186.9	188.3	189.5
42.5°	1255.0	987.3	464.1	256.2	207.3	189.1	181.5	179.1	178.5	180.1	181.7
45°	1363.1	1050.1	448.1	241.2	198.9	182.5	174.5	171.9	170.7	171.5	173.3
47.5°	1461.4	1109.5	441.7	230.6	190.9	176.9	168.3	165.1	163.1	162.7	164.1
50°	1544.4	1153.6	444.7	224.3	184.5	170.7	162.3	158.7	155.7	153.9	154.9
52.5°	1604.7	1181.4	447.5	221.5	179.5	163.9	155.7	152.3	148.3	145.3	145.3
55°	1648.5	1187.8	441.3	219.3	175.7	156.5	148.3	145.1	141.1	137.7	137.3
57.5°	1665.7	1169.8	418.3	216.1	173.1	149.5	140.5	138.1	134.7	130.7	130.5
60°	1642.5	1114.3	374.0	209.3	169.7	143.7	132.7	131.1	129.5	125.7	125.5
62.5°	1549.4	992.3	316.6	195.5	162.9	137.5	125.5	126.3	126.5	123.9	123.5
65°	1380.5	824.9	260.6	177.5	152.7	130.1	118.1	121.9	124.1	123.7	123.1
67.5°	1135.0	642.0	220.9	158.5	139.3	119.9	110.1	114.5	116.3	117.7	117.3
70°	842.4	452.7	182.7	138.5	123.1	107.9	99.7	101.9	100.7	102.3	102.9
72.5°	469.7	271.6	148.9	118.5	106.3	93.9	88.1	87.7	85.1	85.1	85.1
74°	281.8	199.3	130.9	106.1	96.1	84.7	79.7	77.9	75.5	75.7	75.5
75°	226.6	171.3	120.1	97.9	88.9	79.3	74.4	72.0	70.2	70.2	70.0
77.5°	143.1	130.1	96.7	77.9	71.2	65.4	62.0	58.8	58.8	58.6	58.4
80°	108.1	103.5	75.4	59.0	54.6	50.2	48.0	46.6	46.6	47.2	47.0
82.5°	74.2	77.9	53.0	41.2	39.0	35.8	35.4	35.6	35.0	34.2	34.0
85°	54.2	58.6	35.8	26.0	23.8	21.8	23.4	24.2	23.2	21.4	20.6
87.5°	20.8	38.4	19.2	10.8	10.0	8.6	10.0	10.4	11.2	8.8	9.0
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)