

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: P526918

Luminaire Tested: **GALN-SA1D-827-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526918
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1D-827-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4906 lumens
Efficiency: N/A
Efficacy: 75.5 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

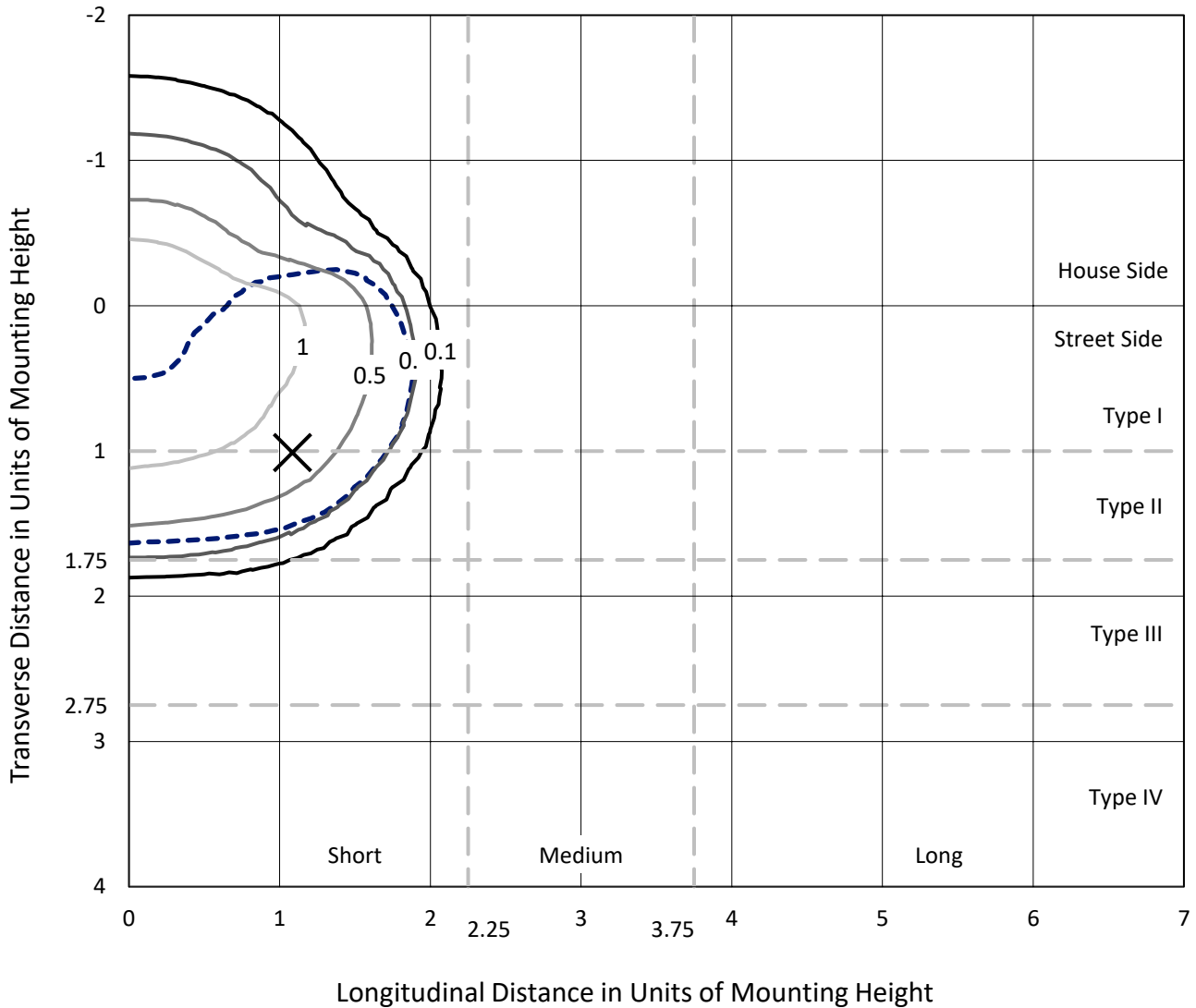
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P526918
 CATALOG NUMBER: GALN-SA1D-827-U-T3-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

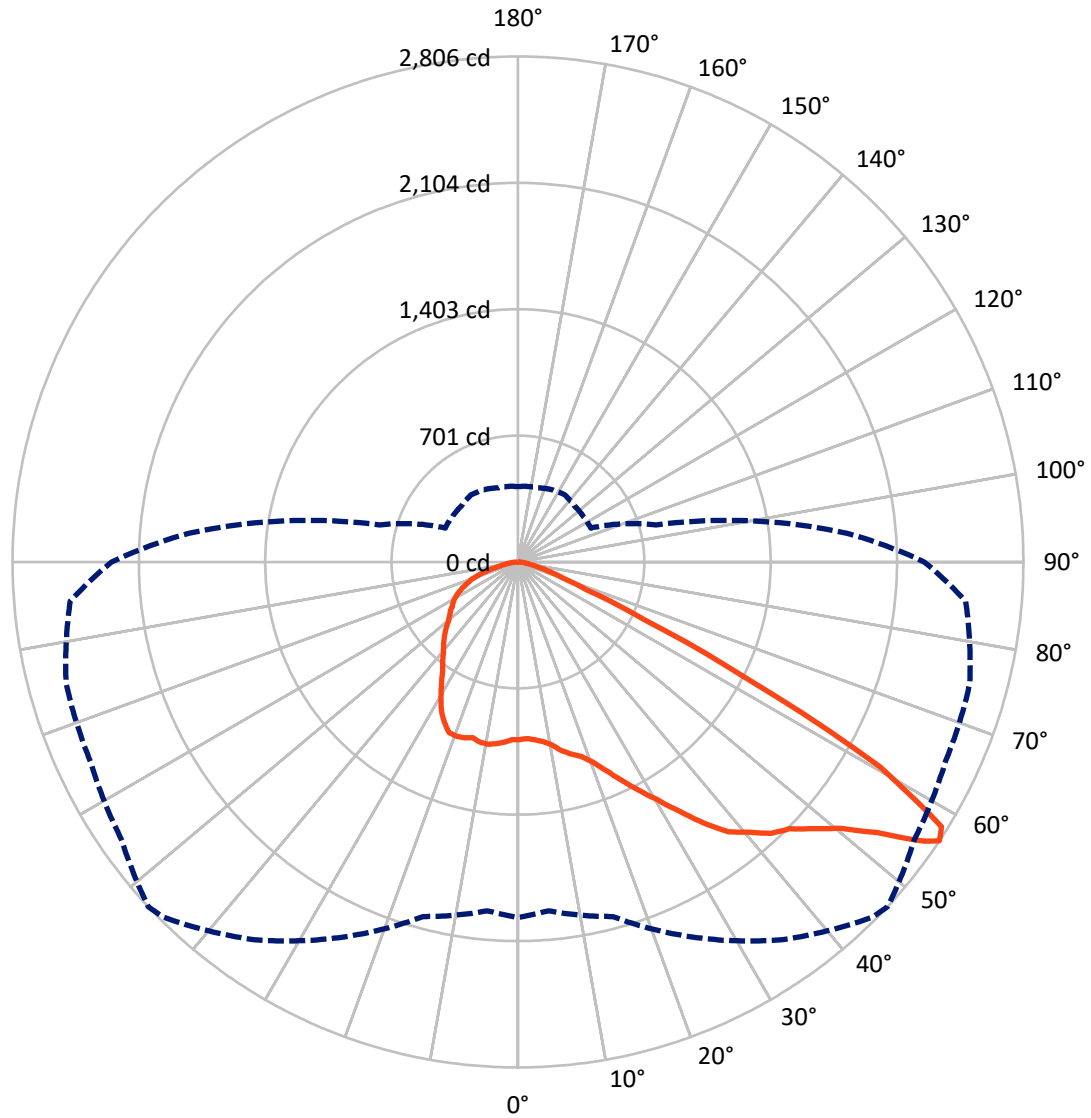
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P526918
CATALOG NUMBER: GALN-SA1D-827-U-T3-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1554.7	0.0	1554.7
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	3351.3	0.0	3351.3
	% Fixture	68.3	0.0	68.3
Total	Lumens	4906.0	0.0	4906.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.0	2.0
10°-20°	302.9	6.2
20°-30°	535.5	10.9
30°-40°	804.2	16.4
40°-50°	1103.7	22.5
50°-60°	1314.9	26.8
60°-70°	562.7	11.5
70°-80°	159.2	3.2
80°-90°	26.8	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°	4906.0	100.0
0°-180°	4906.0	100.0

Coefficient of Utilization



REPORT NUMBER: P526918

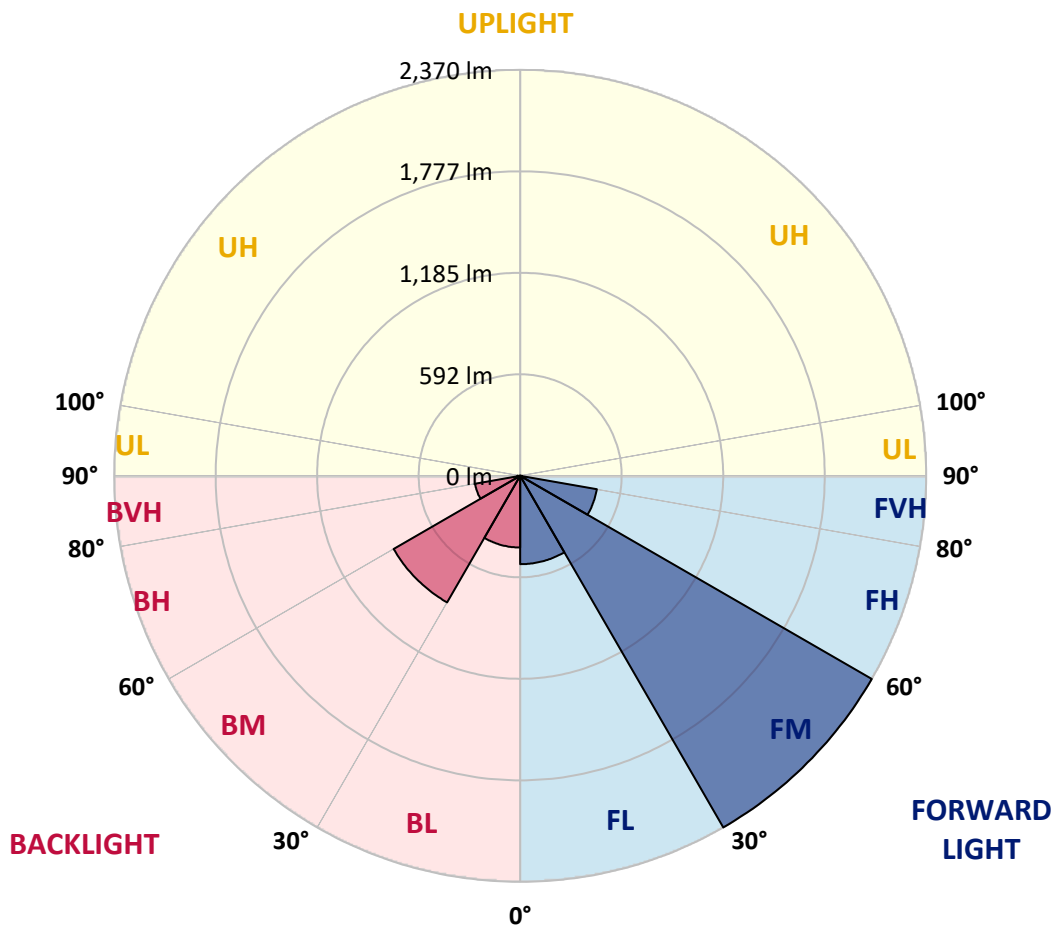
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	515.8	10.5			
FM (30°-60°)	2369.7	48.3			
FH (60°-80°)	454.5	9.3			G0/660
FVH (80°-90°)	11.4	0.2			G1/100
BL (0°-30°)	418.6	8.5	B1/500		
BM (30°-60°)	853.2	17.4	B1/1000		
BH (60°-80°)	267.5	5.5	B1/500		G1/500
BVH (80°-90°)	15.4	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





REPORT NUMBER: P526918

CATALOG NUMBER: GALN-SA1D-827-U-T3-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	985.5	985.5	985.5	985.5	985.5	985.5	985.5	985.5	985.5	985.5	985.5
2.5°	981.7	979.8	978.6	988.6	984.8	985.5	981.7	985.5	988.0	982.3	990.5
5°	979.8	985.5	980.5	983.6	991.7	989.2	991.7	999.2	997.4	995.5	993.0
7.5°	997.4	998.0	1001.7	1003.0	1005.5	1003.0	1006.7	1013.6	1011.7	1001.1	1002.4
10°	1022.4	1023.6	1024.3	1031.1	1035.5	1036.1	1031.8	1025.5	1024.9	1039.3	1029.3
12.5°	1051.2	1048.0	1055.5	1058.0	1063.1	1068.7	1074.3	1061.2	1069.3	1069.9	1058.0
15°	1093.1	1096.2	1087.5	1087.5	1089.3	1090.0	1105.6	1099.3	1098.1	1091.2	1096.2
17.5°	1155.7	1134.4	1133.8	1125.0	1123.7	1128.8	1134.4	1139.4	1156.3	1142.5	1115.6
20°	1201.3	1206.3	1188.2	1177.6	1179.4	1190.7	1185.1	1207.6	1219.5	1197.0	1170.7
22.5°	1282.0	1265.2	1269.5	1245.8	1247.6	1259.5	1258.9	1282.0	1288.9	1253.3	1215.1
25°	1336.5	1332.1	1335.9	1317.1	1319.6	1329.0	1344.0	1382.2	1370.9	1331.5	1243.3
27.5°	1415.9	1407.2	1404.1	1397.2	1394.7	1419.7	1437.2	1477.9	1469.8	1412.2	1293.3
30°	1497.3	1491.7	1494.8	1466.6	1476.6	1529.8	1534.8	1590.5	1586.8	1485.4	1349.0
32.5°	1553.6	1556.7	1562.4	1546.7	1591.1	1633.7	1650.6	1713.8	1716.9	1611.2	1456.6
35°	1644.3	1633.7	1636.8	1655.0	1675.6	1753.2	1780.7	1822.6	1848.9	1743.2	1559.9
37.5°	1701.3	1712.5	1699.4	1728.2	1782.0	1875.2	1900.2	1943.4	1970.9	1873.3	1700.6
40°	1790.1	1772.0	1781.3	1802.0	1857.1	1978.4	1971.6	2016.0	2024.7	1984.1	1832.0
42.5°	1885.8	1877.1	1863.9	1910.9	1957.2	2045.4	2059.2	2038.5	2082.9	2092.3	2019.7
45°	2000.3	2011.0	2012.9	2014.1	2054.8	2131.7	2113.0	2094.8	2146.1	2214.3	2136.1
47.5°	2106.7	2072.9	2097.3	2131.1	2188.7	2189.3	2211.2	2168.0	2222.5	2283.2	2241.2
50°	2142.4	2126.1	2158.6	2222.5	2311.3	2320.7	2323.2	2261.9	2290.0	2338.2	2277.5
52.5°	2128.6	2123.0	2206.2	2305.1	2435.2	2482.7	2495.3	2419.6	2435.2	2413.3	2357.6
55°	2062.9	2079.8	2163.6	2365.1	2564.7	2711.8	2735.5	2639.8	2540.3	2557.2	2495.9
56°	1972.8	1943.4	2037.3	2296.9	2559.1	2786.2	2805.6	2686.1	2618.5	2596.6	2494.6
57.5°	1673.7	1635.6	1758.8	2066.7	2417.1	2758.1	2772.4	2705.5	2605.4	2561.0	2312.6
60°	979.8	998.6	1155.0	1425.3	1864.6	2261.3	2309.4	2358.2	2291.3	2092.3	1721.3
62.5°	473.0	461.1	573.1	817.2	1136.3	1443.5	1429.1	1566.1	1641.2	1486.6	1086.8
65°	247.8	246.5	312.8	446.1	624.4	758.3	771.5	845.3	948.6	765.8	551.9
67.5°	182.1	187.1	220.2	313.5	401.7	409.8	408.0	444.9	454.9	384.8	339.1
70°	142.7	145.2	169.6	238.4	299.1	267.8	262.2	266.5	296.0	308.5	293.4
72.5°	103.2	105.7	126.4	160.8	187.1	182.7	186.5	210.9	247.1	260.3	244.6
75°	68.8	70.7	82.0	98.2	110.7	119.5	126.4	154.5	188.3	195.8	188.3
77.5°	47.6	49.4	56.9	69.5	70.7	76.3	78.8	92.0	112.6	122.0	117.0
80°	26.9	26.9	30.7	35.7	43.8	51.3	52.6	63.2	72.6	78.8	80.1
82.5°	12.5	13.1	16.3	21.9	28.8	35.7	36.9	43.8	50.7	56.9	58.8
85°	6.3	6.9	9.4	13.1	17.5	21.3	20.6	21.3	22.5	21.3	21.9
87.5°	1.9	1.9	2.5	3.1	2.5	3.1	3.1	3.8	4.4	5.0	5.6
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: P526918

CATALOG NUMBER: GALN-SA1D-827-U-T3-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	985.5	985.5	985.5	985.5	985.5	985.5	985.5	985.5	985.5	985.5	985.5
2.5°	991.1	993.0	980.5	992.3	988.0	987.3	996.1	994.9	998.0	996.7	989.2
5°	991.7	987.3	1000.5	988.6	994.2	1006.1	998.0	1016.8	1007.4	1013.6	999.9
7.5°	1011.1	1012.4	1009.9	1014.9	1012.4	1018.0	1013.6	1018.0	1010.5	1011.1	1023.6
10°	1028.0	1024.3	1028.6	1022.4	1026.8	1024.9	1014.9	1011.7	1014.2	1011.1	1019.3
12.5°	1059.3	1052.4	1049.3	1041.8	1036.8	1018.0	1002.4	993.6	1005.5	1007.4	1003.6
15°	1091.2	1091.8	1077.4	1060.5	1029.3	1001.1	1004.9	1008.0	1008.0	1013.0	1003.6
17.5°	1111.2	1111.2	1098.1	1064.3	1032.4	1016.1	1012.4	1002.4	993.6	992.3	991.7
20°	1146.3	1135.6	1105.6	1063.7	1031.1	1023.6	995.5	971.7	953.6	947.3	946.7
22.5°	1186.3	1159.4	1117.5	1064.9	1029.3	1018.6	966.1	930.4	897.9	884.1	886.0
25°	1223.2	1180.1	1124.4	1059.3	1022.4	971.1	912.3	862.8	829.0	817.8	812.1
27.5°	1248.9	1202.0	1124.4	1064.3	996.7	917.9	857.8	794.6	765.2	757.7	759.0
30°	1283.3	1229.5	1143.8	1053.7	945.4	849.1	777.1	735.8	718.3	712.0	716.4
32.5°	1364.0	1301.4	1170.7	1028.0	884.7	780.2	722.0	698.9	673.2	660.7	656.4
35°	1451.6	1369.6	1197.0	984.8	816.5	717.7	681.4	660.1	629.4	615.7	618.2
37.5°	1575.5	1457.2	1198.8	913.5	742.7	682.6	649.5	616.3	591.3	570.0	563.7
40°	1742.6	1576.7	1194.4	838.4	683.3	641.3	616.9	575.6	547.5	532.5	535.6
42.5°	1889.6	1716.9	1176.3	753.3	629.4	613.2	585.6	545.0	517.4	501.8	500.6
45°	2013.5	1820.1	1141.9	680.8	584.4	581.9	550.0	518.7	496.8	482.4	488.7
47.5°	2128.0	1903.4	1090.0	608.2	543.1	548.1	517.4	498.1	484.3	471.1	470.5
50°	2169.3	1902.1	1044.3	548.1	509.9	507.4	506.2	485.5	471.1	459.9	464.9
52.5°	2238.1	1923.4	994.9	506.8	479.9	480.5	484.9	469.9	453.6	446.7	453.0
55°	2337.0	1926.5	886.0	458.6	454.9	459.3	459.3	449.2	435.5	429.9	426.7
56°	2256.2	1833.3	794.6	446.1	442.4	442.4	454.3	443.0	426.1	421.7	418.0
57.5°	2081.1	1606.2	665.1	431.1	425.5	434.2	440.5	428.6	413.0	406.7	410.5
60°	1435.3	1086.8	499.9	398.6	398.6	413.0	418.0	400.4	393.6	392.9	387.9
62.5°	837.8	633.2	391.1	369.2	370.4	382.3	386.1	376.0	367.3	377.9	382.9
65°	444.2	377.9	335.4	337.9	338.5	347.9	364.2	363.5	362.9	366.0	366.7
67.5°	321.6	314.1	304.7	302.2	303.5	310.3	326.6	339.1	338.5	331.0	325.4
70°	286.6	275.9	270.3	270.9	265.9	274.1	287.2	295.3	280.9	272.2	268.4
72.5°	238.4	235.3	231.5	232.1	222.1	220.2	205.2	205.2	201.5	199.0	203.4
75°	182.1	180.8	182.7	179.6	168.9	157.7	148.9	140.8	128.3	123.3	120.8
77.5°	115.1	118.9	123.3	116.4	112.0	103.9	95.1	87.0	77.0	71.3	71.3
80°	78.2	81.3	84.5	83.2	78.2	70.7	63.8	55.1	48.2	43.8	43.2
82.5°	59.4	61.9	66.3	61.3	56.3	50.1	44.4	38.2	31.9	26.9	26.9
85°	21.3	24.4	26.9	29.4	31.3	31.9	27.5	22.5	18.1	14.4	13.8
87.5°	5.6	6.3	6.9	6.3	6.3	6.3	6.9	6.3	5.6	4.4	4.4
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)