

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: P450680

Luminaire Tested: **GALN-SA1C-727-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450680
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1C-727-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD
THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5936 lumens
Efficiency: N/A
Efficacy: 104.1 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

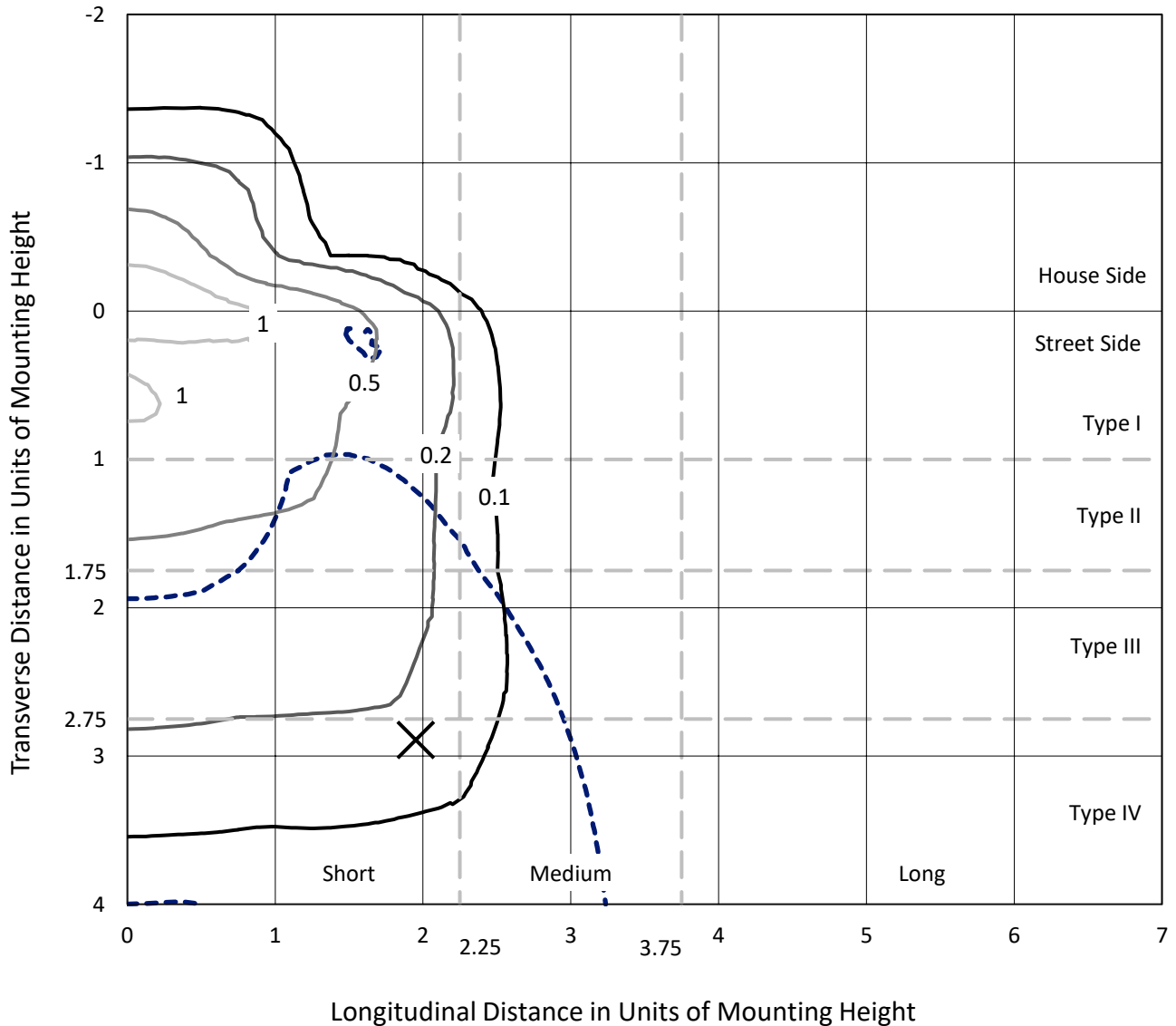
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P450680
 CATALOG NUMBER: GALN-SA1C-727-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

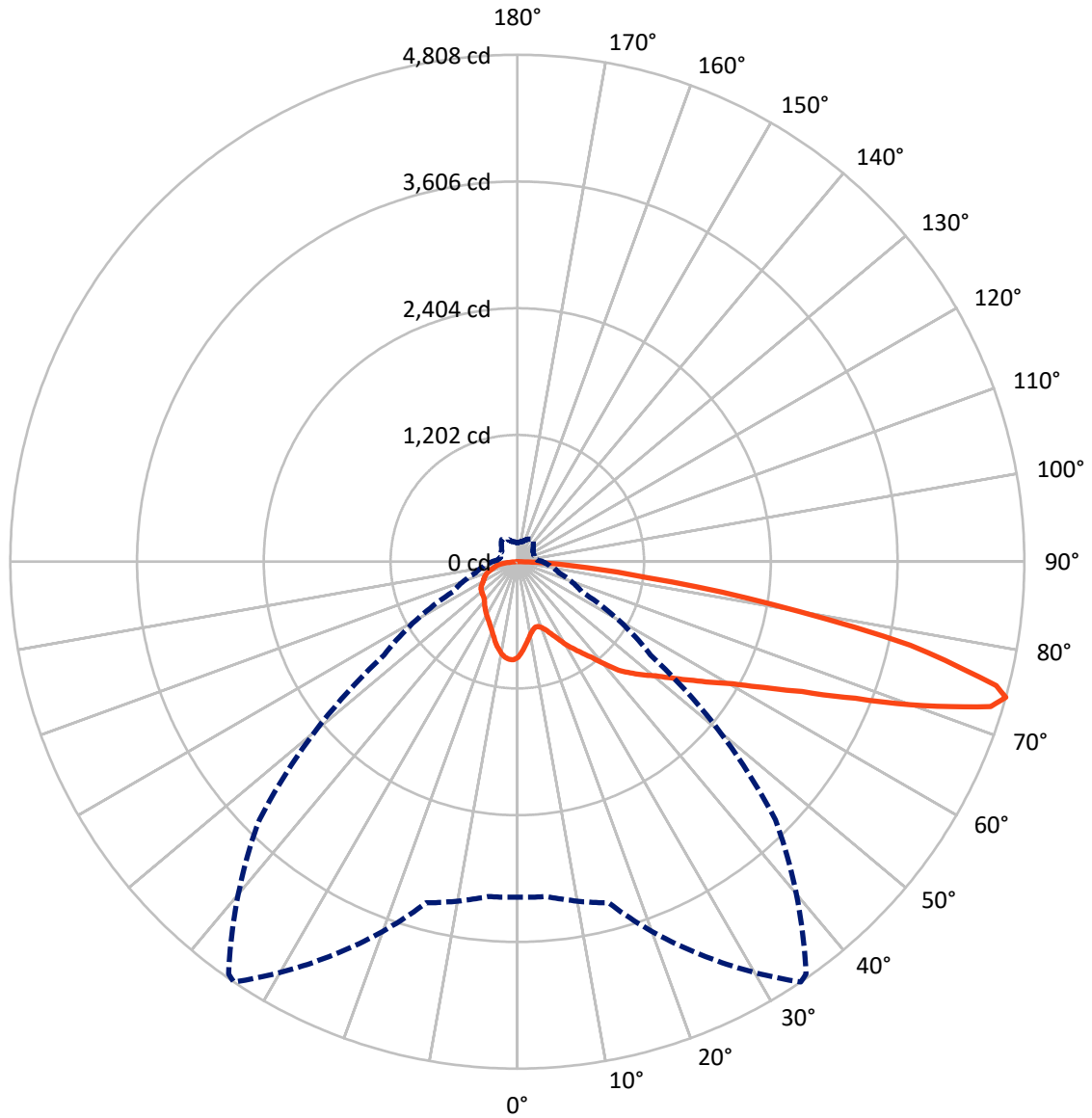
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type IV - Short - N/A

REPORT NUMBER: P450680
CATALOG NUMBER: GALN-SA1C-727-U-T4FT

Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1263.2	0.0	1263.2
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	4672.8	0.0	4672.8
	% Fixture	78.7	0.0	78.7
Total	Lumens	5936.0	0.0	5936.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.4	1.4
10°-20°	225.6	3.8
20°-30°	372.0	6.3
30°-40°	557.2	9.4
40°-50°	810.1	13.6
50°-60°	1131.5	19.1
60°-70°	1416.5	23.9
70°-80°	1171.4	19.7
80°-90°	169.3	2.9
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°	5936.0	100.0
0°-180°	5936.0	100.0

Coefficient of Utilization



REPORT NUMBER: P450680

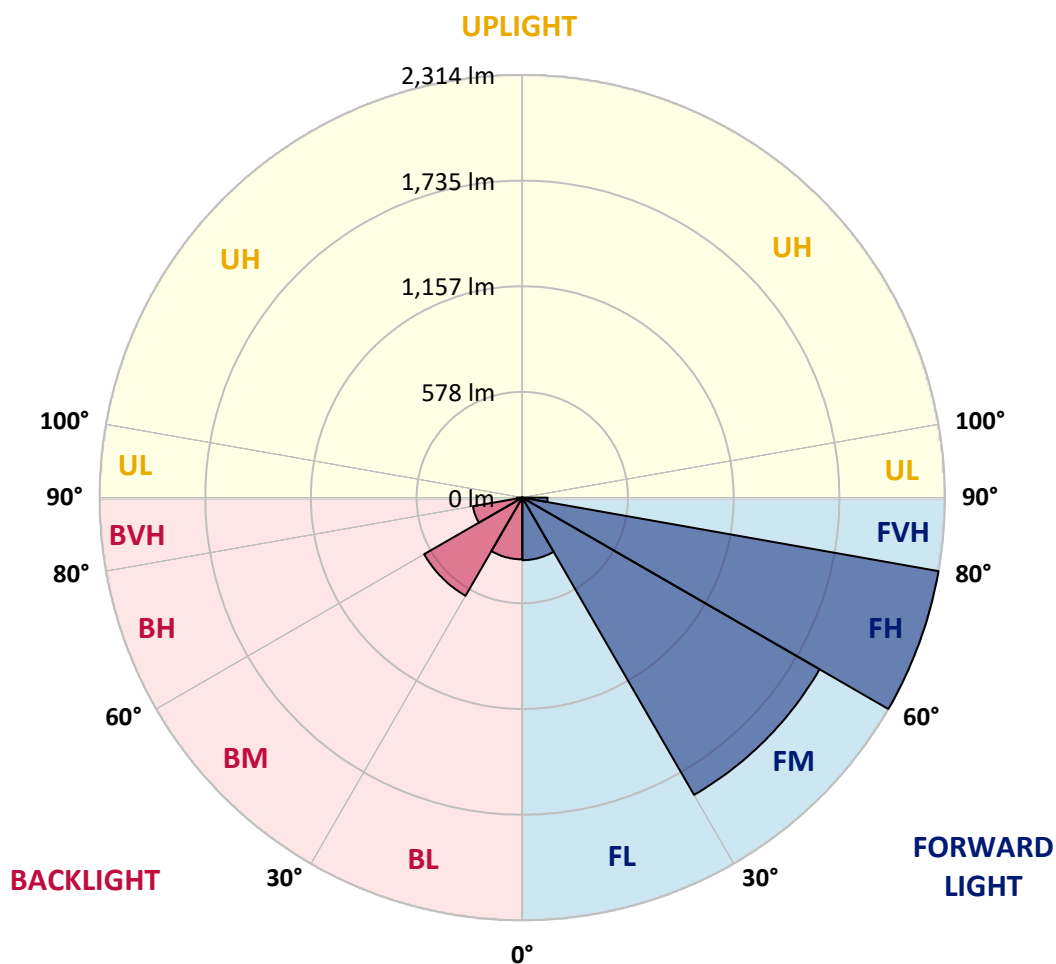
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	342.2	5.8			
FM (30°-60°)	1878.4	31.6			
FH (60°-80°)	2313.5	39.0			G2/5000
FVH (80°-90°)	138.7	2.3			G2/225
BL (0°-30°)	337.9	5.7	B1/500		
BM (30°-60°)	620.4	10.5	B1/1000		
BH (60°-80°)	274.4	4.6	B1/500		G1/500
BVH (80°-90°)	30.6	0.5			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





REPORT NUMBER: P450680

CATALOG NUMBER: GALN-SA1C-727-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	906.3	906.3	906.3	906.3	906.3	906.3	906.3	906.3	906.3	906.3	906.3
2.5°	837.6	841.9	844.2	852.4	854.4	857.0	863.9	873.1	884.9	895.5	904.7
5°	767.9	774.4	778.4	785.6	799.8	801.1	819.5	840.5	864.5	886.9	905.3
7.5°	701.8	709.0	712.3	725.4	744.2	747.1	774.1	807.3	847.4	881.3	909.6
10°	652.1	655.7	663.0	672.8	695.2	697.2	732.3	776.7	828.7	878.7	916.8
12.5°	625.1	627.1	628.8	639.3	661.3	664.3	701.1	751.4	813.9	880.7	928.7
15°	629.1	629.7	622.5	624.5	642.2	646.5	683.0	734.7	804.7	885.6	946.4
17.5°	662.3	660.0	642.2	633.0	645.5	647.5	679.4	728.1	800.4	894.8	964.8
20°	714.6	711.3	680.7	660.3	667.6	669.2	691.2	733.0	804.7	909.9	993.5
22.5°	779.7	778.4	732.0	707.4	707.0	707.0	718.5	750.8	817.5	930.6	1023.4
25°	870.8	863.9	803.4	771.5	762.6	761.9	760.6	780.0	834.0	952.7	1058.9
27.5°	964.2	952.3	898.4	849.4	830.3	828.0	819.5	821.5	855.0	977.7	1099.3
30°	1048.0	1040.5	989.8	935.6	912.9	907.6	883.9	873.1	890.2	1022.7	1163.8
32.5°	1112.2	1107.6	1068.1	1018.8	985.2	984.2	949.7	940.8	945.1	1077.3	1237.5
35°	1164.1	1165.8	1145.7	1103.0	1064.5	1058.9	1035.9	1024.7	1012.2	1156.2	1330.2
37.5°	1235.2	1238.8	1237.5	1200.6	1153.6	1154.9	1149.7	1131.2	1098.0	1244.4	1433.1
40°	1313.4	1316.1	1315.7	1301.6	1276.9	1278.2	1276.3	1255.2	1205.6	1356.5	1547.6
42.5°	1421.6	1409.1	1376.6	1390.7	1405.2	1411.4	1424.9	1404.8	1336.8	1476.2	1655.1
45°	1542.6	1519.0	1445.3	1451.9	1505.5	1517.3	1591.6	1564.0	1479.2	1613.7	1781.7
47.5°	1618.9	1595.6	1533.4	1532.1	1603.1	1614.7	1746.2	1736.0	1608.7	1762.0	1936.3
50°	1687.0	1683.7	1613.7	1630.4	1699.8	1716.9	1914.6	1905.0	1738.0	1936.9	2104.6
52.5°	1788.0	1761.3	1705.4	1739.9	1831.7	1854.1	2081.6	2053.7	1856.7	2091.5	2268.1
55°	1833.3	1827.1	1823.8	1853.7	1979.7	1995.8	2244.1	2179.9	1958.0	2222.4	2392.4
57.5°	1954.7	1943.2	1975.7	1996.1	2154.0	2178.6	2413.8	2311.8	2046.8	2326.3	2452.9
60°	2111.9	2105.6	2135.6	2172.4	2348.6	2386.1	2607.1	2424.3	2118.1	2378.6	2419.7
62.5°	2346.7	2346.0	2340.4	2419.3	2624.5	2659.1	2829.1	2533.8	2129.3	2339.4	2248.0
65°	2683.4	2671.6	2622.9	2709.1	2967.9	3008.3	3060.3	2595.0	2061.9	2138.5	1892.9
67.5°	3035.6	3035.0	2995.5	3107.3	3460.8	3502.6	3349.3	2581.5	1874.8	1732.4	1344.3
70°	3327.6	3313.5	3363.8	3661.7	4090.6	4138.9	3602.2	2422.6	1493.3	1144.1	798.8
72.5°	3397.7	3398.3	3502.9	4089.2	4695.3	4702.9	3693.3	1963.6	999.4	631.1	399.6
74°	3181.9	3187.5	3349.7	4110.6	4808.1	4773.9	3460.5	1543.3	675.8	412.0	288.1
75°	2904.4	2869.2	3103.7	3968.2	4691.0	4654.2	3187.9	1238.4	515.6	329.2	252.2
77.5°	1552.8	1588.7	1950.4	2961.3	3811.0	3768.6	2161.5	593.9	278.5	229.2	181.5
80°	552.8	609.7	857.0	1549.5	2443.4	2456.5	1031.6	272.3	196.0	169.0	128.3
82.5°	225.6	231.8	368.0	687.6	1240.7	1252.6	421.3	161.8	140.1	116.4	76.6
85°	88.1	90.8	162.8	309.1	529.4	564.0	145.7	85.5	86.2	66.8	39.1
87.5°	29.6	33.5	66.8	102.9	179.9	176.3	42.4	25.3	30.9	28.9	12.2
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: P450680
 CATALOG NUMBER: GALN-SA1C-727-U-T4FT

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	906.3	906.3	906.3	906.3	906.3	906.3	906.3	906.3	906.3	906.3	906.3
2.5°	909.3	915.5	919.8	924.4	928.7	930.0	929.0	932.0	932.3	932.6	932.9
5°	914.5	923.1	931.3	935.9	937.9	936.2	930.6	927.7	925.1	923.1	923.7
7.5°	921.8	933.9	941.5	943.5	938.2	930.6	916.8	906.0	899.1	894.5	894.1
10°	932.9	944.8	951.0	945.4	931.0	912.6	890.9	870.5	855.0	850.4	850.1
12.5°	947.1	960.6	960.2	943.8	918.5	885.6	850.4	826.7	805.7	795.2	799.4
15°	965.5	975.7	966.2	936.6	896.4	851.4	808.0	775.8	752.1	740.9	741.6
17.5°	986.9	995.8	970.4	923.7	865.5	807.7	757.3	726.8	708.0	699.8	699.1
20°	1013.5	1016.1	970.4	901.4	825.7	756.7	708.7	687.3	676.8	672.5	673.8
22.5°	1042.1	1036.9	965.2	869.8	773.5	703.4	671.2	661.6	656.4	655.7	656.4
25°	1074.4	1059.6	954.3	827.1	718.9	657.4	638.6	640.3	641.3	641.3	643.6
27.5°	1113.8	1084.2	936.2	773.1	655.1	614.6	609.4	620.9	626.1	627.1	628.8
30°	1165.8	1111.2	906.3	705.7	600.8	576.1	585.4	600.8	606.7	610.3	609.7
32.5°	1227.6	1140.8	865.9	638.3	557.1	549.2	560.4	576.1	582.7	584.7	582.1
35°	1300.3	1174.3	812.6	575.2	518.9	523.5	536.7	541.6	547.5	547.5	548.9
37.5°	1378.5	1201.3	747.5	517.3	489.3	506.1	515.6	511.0	508.4	505.1	506.8
40°	1458.1	1221.3	663.0	460.1	459.7	488.0	490.6	477.5	467.0	463.7	462.0
42.5°	1527.5	1233.8	586.7	415.7	431.8	470.3	472.2	451.2	434.4	424.5	421.3
45°	1609.4	1248.3	512.0	378.8	405.8	456.1	461.0	432.8	408.1	387.4	382.1
47.5°	1721.5	1281.2	453.2	350.2	387.1	447.2	454.1	417.6	385.1	358.1	353.8
50°	1848.1	1326.3	407.4	330.8	372.6	439.3	447.9	402.2	363.7	333.8	330.5
52.5°	1964.2	1350.6	368.0	313.4	358.4	424.9	439.7	391.0	342.7	309.4	306.5
55°	2027.7	1311.1	329.2	296.3	339.0	406.1	428.2	375.5	322.3	296.6	292.3
57.5°	2036.2	1229.6	294.0	277.9	318.7	383.1	406.8	356.8	309.1	287.7	284.1
60°	1970.1	1107.9	266.7	262.8	297.9	357.1	382.8	340.4	295.6	277.9	274.3
62.5°	1805.7	975.7	247.6	248.9	276.9	329.8	365.0	324.6	282.8	267.0	263.7
65°	1522.9	805.4	229.2	234.8	258.1	308.5	348.9	311.4	270.0	258.8	255.8
67.5°	1057.9	581.4	214.1	220.0	240.4	286.8	330.2	297.3	255.5	249.6	245.0
70°	585.7	357.8	196.3	203.2	222.0	262.4	309.1	275.9	234.5	231.8	225.3
72.5°	307.8	227.9	176.3	183.8	197.0	231.2	276.9	252.6	213.8	202.6	194.0
74°	240.4	186.8	162.8	170.7	179.6	212.8	257.8	235.8	199.0	185.8	179.2
75°	209.5	166.4	151.3	161.5	169.4	200.3	243.0	223.9	190.7	178.2	172.3
77.5°	148.0	124.6	123.6	135.8	140.1	175.6	219.0	203.9	170.0	156.9	151.3
80°	103.9	93.4	98.0	105.6	111.5	155.2	203.2	176.3	139.4	124.0	122.0
82.5°	67.7	61.2	70.0	77.0	78.9	114.4	164.1	133.8	101.6	82.5	76.6
85°	31.2	30.6	40.1	39.1	38.8	55.9	97.3	78.3	58.5	43.7	41.1
87.5°	7.9	7.6	9.9	8.2	9.9	8.6	8.9	2.3	0.3	0.0	0.0
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)