

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: P527514

Luminaire Tested: **GALN-SA2C-735-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527514
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-735-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11573 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

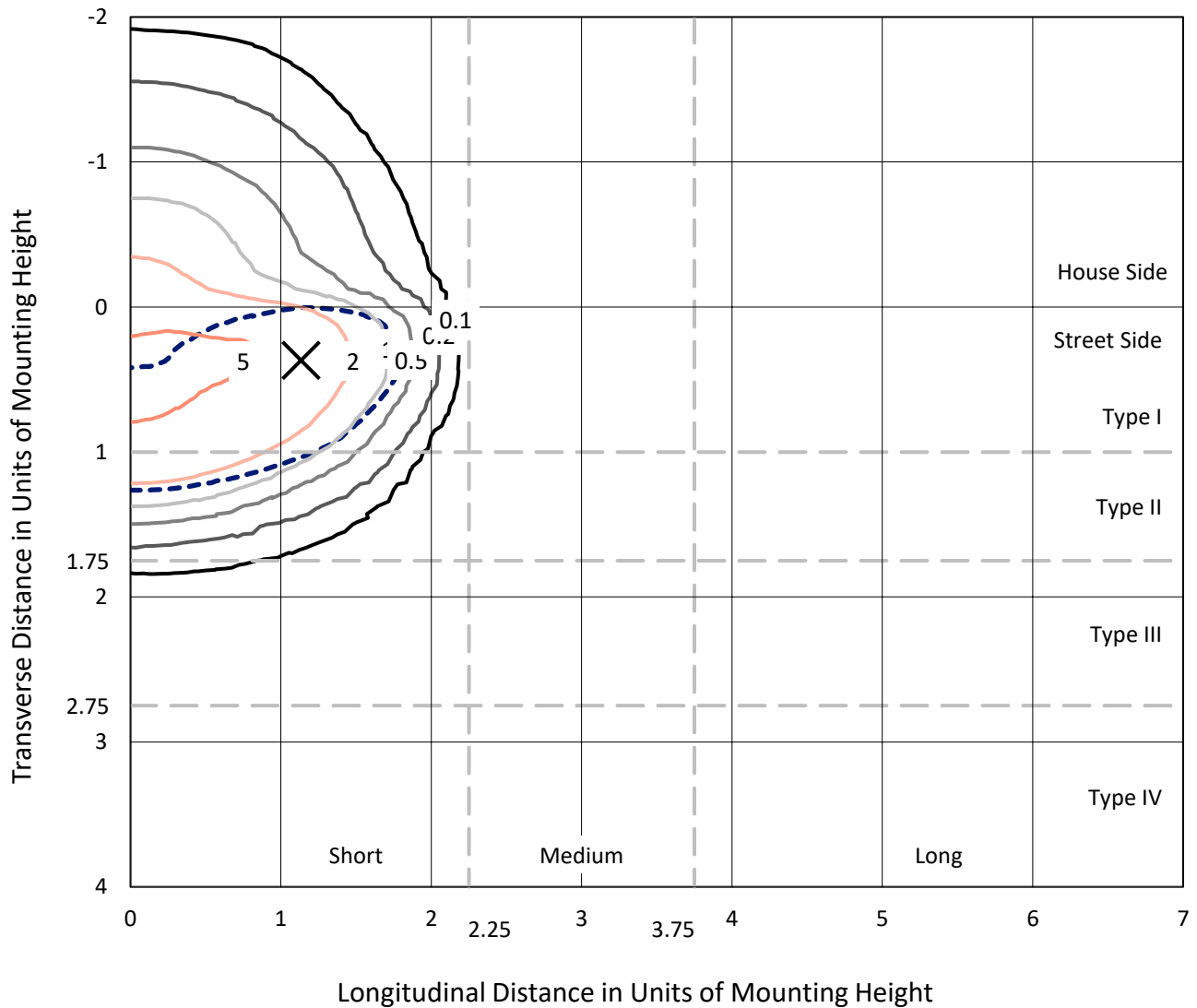
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P527514
 CATALOG NUMBER: GALN-SA2C-735-U-T2R-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

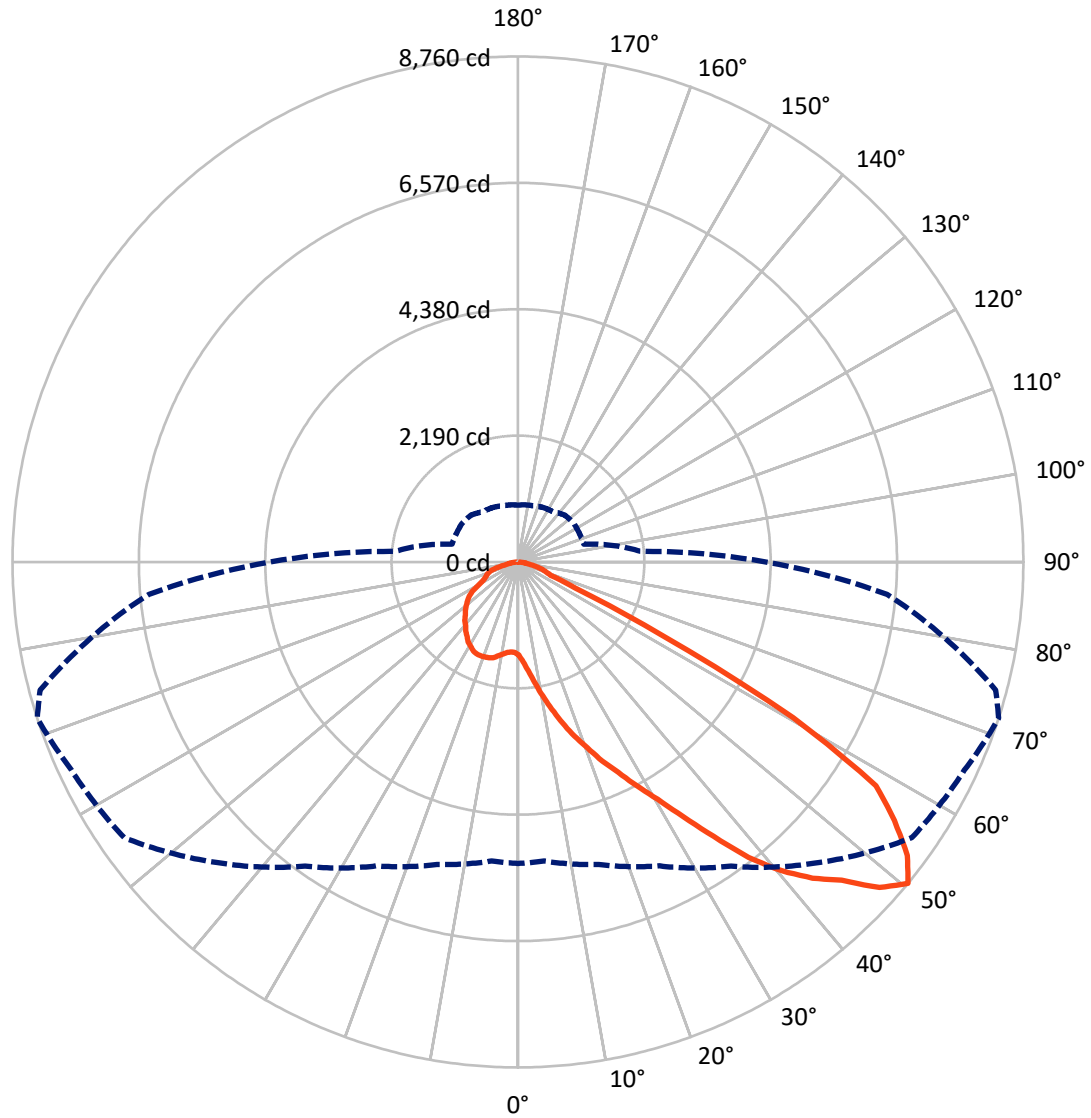
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type II - Short - N/A

REPORT NUMBER: P527514
CATALOG NUMBER: GALN-SA2C-735-U-T2R-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P527514
 CATALOG NUMBER: GALN-SA2C-735-U-T2R-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2651.4	0.0	2651.4
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	8921.6	0.0	8921.6
	% Fixture	77.1	0.0	77.1
Total	Lumens	11573.0	0.0	11573.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.5	1.6
10°-20°	708.4	6.1
20°-30°	1373.6	11.9
30°-40°	2275.5	19.7
40°-50°	3184.0	27.5
50°-60°	2686.1	23.2
60°-70°	818.7	7.1
70°-80°	287.2	2.5
80°-90°	49.9	0.4
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°	11573.0	100.0
0°-180°	11573.0	100.0

Coefficient of Utilization



REPORT NUMBER: P527514

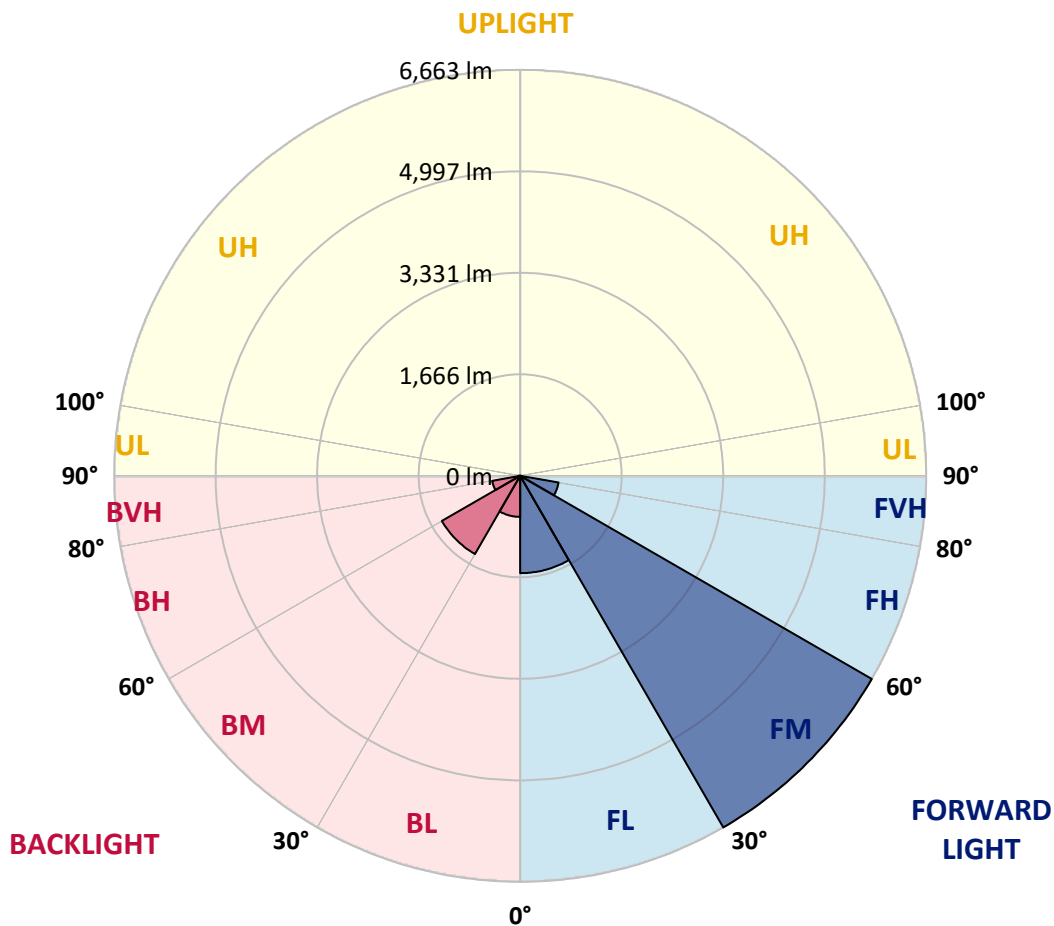
CATALOG NUMBER: GALN-SA2C-735-U-T2R-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1597.5	13.8			
FM (30°-60°)	6662.9	57.6			
FH (60°-80°)	638.8	5.5			G0/660
FVH (80°-90°)	22.4	0.2			G1/100
BL (0°-30°)	674.0	5.8	B2/1000		
BM (30°-60°)	1482.7	12.8	B2/2500		
BH (60°-80°)	467.1	4.0	B1/500		G1/500
BVH (80°-90°)	27.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





REPORT NUMBER: P527514

CATALOG NUMBER: GALN-SA2C-735-U-T2R-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	1611.1	1611.1	1611.1	1611.1	1611.1	1611.1	1611.1	1611.1	1611.1	1611.1	1611.1
2.5°	2072.2	2059.3	2020.6	2007.7	1961.9	1878.9	1850.2	1765.7	1729.9	1697.0	1658.3
5°	2620.7	2560.5	2556.2	2483.2	2377.2	2315.6	2132.3	2009.2	1896.0	1838.8	1732.8
7.5°	2970.1	2971.5	2971.5	2911.4	2826.9	2670.8	2506.1	2284.1	2113.7	2029.2	1848.8
10°	3302.3	3273.7	3257.9	3252.2	3194.9	3043.1	2867.0	2592.0	2358.6	2259.8	1936.1
12.5°	3537.2	3512.8	3548.6	3530.0	3488.5	3389.7	3223.6	2909.9	2617.8	2484.6	2076.5
15°	3648.9	3666.1	3694.7	3746.3	3727.6	3690.4	3507.1	3236.4	2897.0	2746.7	2201.1
17.5°	3820.7	3773.5	3807.8	3872.3	3923.8	3906.6	3802.1	3472.7	3173.4	2988.7	2368.6
20°	3941.0	3913.8	3931.0	4005.5	4044.1	4141.5	4087.1	3782.1	3438.4	3243.6	2566.2
22.5°	4284.7	4244.6	4188.8	4200.2	4214.5	4283.3	4296.2	4121.5	3746.3	3540.0	2753.8
25°	4708.6	4671.4	4605.5	4538.2	4496.6	4483.8	4528.2	4387.8	4041.3	3827.9	2955.8
27.5°	5175.4	5112.4	5070.9	4932.0	4820.3	4803.1	4781.6	4705.7	4390.7	4160.1	3183.5
30°	5629.4	5579.3	5523.4	5301.5	5185.5	5166.8	5060.9	5082.4	4770.2	4513.8	3441.2
32.5°	5973.1	5977.4	5849.9	5682.4	5573.6	5474.7	5436.1	5497.7	5257.1	5050.9	3729.1
35°	6250.9	6263.8	6142.1	5990.3	5872.9	5941.6	5924.4	5953.0	5838.5	5586.4	4064.2
37.5°	6521.6	6457.1	6326.8	6253.8	6192.2	6305.3	6451.4	6475.7	6497.2	6200.8	4453.7
40°	6566.0	6571.7	6495.8	6547.3	6470.0	6640.4	6979.8	6948.3	7035.7	6776.5	4876.1
42.5°	6503.0	6515.8	6545.9	6619.0	6805.1	7009.9	7514.0	7385.1	7491.1	7260.5	5287.1
45°	6399.8	6346.9	6384.1	6661.9	6984.1	7439.5	8002.3	7902.1	7867.7	7674.4	5776.9
47.5°	5907.2	5961.6	6077.6	6419.9	6903.9	7514.0	8348.9	8326.0	8429.1	8293.0	6222.3
50°	5224.1	5202.7	5426.1	5811.3	6435.6	7367.9	8330.3	8537.9	8759.9	8570.8	6421.3
52.5°	3912.4	4026.9	4218.8	4697.1	5587.9	6571.7	7923.6	8270.1	8450.5	8410.5	6260.9
55°	2473.2	2507.5	2623.5	3192.0	3994.0	5274.3	6792.2	7595.6	7917.8	8068.2	6113.4
57.5°	1201.5	1137.1	1278.8	1735.6	2307.0	3547.2	5238.5	6616.1	7316.4	7588.5	5792.7
60°	627.2	651.6	707.4	870.7	1192.9	1841.6	3265.1	4409.3	5479.0	5897.2	4390.7
62.5°	519.8	528.4	565.7	647.3	793.4	1059.7	1666.9	2149.5	2793.9	3170.6	2497.5
65°	441.1	445.4	485.5	539.9	633.0	746.1	857.8	897.9	1086.9	1115.6	887.9
67.5°	368.0	372.3	415.3	466.8	527.0	557.1	585.7	582.8	604.3	595.7	594.3
70°	283.5	287.8	332.2	386.7	416.7	399.5	488.3	508.4	517.0	524.1	535.6
72.5°	204.8	213.4	247.7	286.4	270.7	310.8	402.4	432.5	443.9	448.2	462.6
75°	148.9	151.8	160.4	148.9	171.8	216.2	283.5	320.8	335.1	339.4	360.9
77.5°	65.9	67.3	68.7	85.9	110.3	134.6	169.0	199.1	219.1	224.8	230.6
80°	34.4	35.8	44.4	58.7	78.8	98.8	123.2	140.3	153.2	154.7	160.4
82.5°	21.5	22.9	31.5	41.5	55.9	73.0	90.2	104.5	114.6	116.0	117.4
85°	10.0	12.9	18.6	25.8	37.2	47.3	48.7	41.5	44.4	45.8	43.0
87.5°	2.9	4.3	5.7	4.3	5.7	5.7	7.2	8.6	8.6	8.6	10.0
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: P527514

CATALOG NUMBER: GALN-SA2C-735-U-T2R-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1611.1	1611.1	1611.1	1611.1	1611.1	1611.1	1611.1	1611.1	1611.1	1611.1	1611.1
2.5°	1636.8	1623.9	1573.8	1555.2	1506.5	1515.1	1489.3	1487.9	1482.2	1480.7	1479.3
5°	1676.9	1636.8	1576.7	1530.9	1503.7	1500.8	1482.2	1482.2	1487.9	1492.2	1482.2
7.5°	1742.8	1697.0	1595.3	1552.3	1528.0	1523.7	1510.8	1500.8	1513.7	1509.4	1497.9
10°	1818.7	1738.5	1631.1	1593.9	1553.8	1543.8	1543.8	1548.0	1526.6	1533.7	1522.3
12.5°	1903.2	1795.8	1676.9	1634.0	1586.7	1581.0	1578.1	1546.6	1558.1	1552.3	1523.7
15°	2010.6	1861.7	1735.6	1662.6	1622.5	1596.7	1559.5	1553.8	1546.6	1532.3	1519.4
17.5°	2126.6	1933.3	1762.9	1671.2	1611.1	1592.4	1563.8	1533.7	1512.2	1515.1	1505.1
20°	2225.4	1999.1	1772.9	1679.8	1602.5	1566.7	1522.3	1503.7	1480.7	1479.3	1477.9
22.5°	2342.8	2087.9	1787.2	1656.9	1576.7	1539.5	1509.4	1476.4	1460.7	1440.6	1450.7
25°	2483.2	2122.3	1790.1	1644.0	1558.1	1492.2	1476.4	1440.6	1434.9	1406.3	1412.0
27.5°	2584.9	2140.9	1767.2	1603.9	1515.1	1465.0	1436.3	1410.6	1400.5	1379.1	1373.3
30°	2720.9	2169.6	1718.5	1553.8	1472.2	1416.3	1399.1	1393.4	1364.7	1341.8	1339.0
32.5°	2875.6	2188.2	1687.0	1502.2	1427.8	1384.8	1393.4	1366.2	1330.4	1310.3	1304.6
35°	2998.7	2195.3	1608.2	1443.5	1397.7	1370.5	1360.5	1354.7	1303.2	1284.6	1270.2
37.5°	3186.3	2179.6	1542.3	1402.0	1364.7	1354.7	1346.1	1307.5	1248.8	1221.5	1201.5
40°	3405.4	2175.3	1457.8	1343.3	1333.2	1344.7	1318.9	1258.8	1177.1	1147.1	1132.8
42.5°	3615.9	2205.4	1404.8	1311.8	1298.9	1303.2	1267.4	1177.1	1137.1	1119.9	1097.0
45°	3968.2	2268.4	1317.5	1263.1	1257.3	1254.5	1211.5	1117.0	1094.1	1072.6	1068.3
47.5°	4286.1	2226.8	1261.6	1212.9	1218.7	1202.9	1111.3	1081.2	1055.4	1033.9	1026.8
50°	4304.8	2128.0	1182.9	1174.3	1175.7	1148.5	1061.2	1041.1	1008.2	993.8	983.8
52.5°	4207.4	1966.2	1109.8	1112.7	1117.0	1072.6	999.6	985.3	958.0	938.0	932.3
55°	3933.9	1714.2	1038.2	1049.7	1061.2	976.7	953.7	917.9	896.5	867.8	869.3
57.5°	3465.6	1380.5	938.0	956.6	981.0	887.9	870.7	826.3	794.8	771.9	769.0
60°	2322.8	982.4	787.6	794.8	849.2	812.0	810.5	766.1	723.2	703.1	691.7
62.5°	1370.5	750.4	680.2	673.1	671.6	693.1	728.9	713.2	657.3	618.6	630.1
65°	717.5	648.7	633.0	608.6	594.3	588.6	615.8	622.9	585.7	544.2	541.3
67.5°	602.9	602.9	590.0	581.4	561.4	537.0	519.8	496.9	491.2	479.7	465.4
70°	548.5	562.8	558.5	538.5	521.3	494.1	449.7	412.4	376.6	363.7	372.3
72.5°	478.3	492.6	492.6	482.6	459.7	418.2	375.2	332.2	302.2	279.3	276.4
75°	368.0	375.2	392.4	380.9	350.9	325.1	280.7	236.3	207.6	186.2	181.9
77.5°	234.9	246.3	246.3	244.9	223.4	199.1	170.4	138.9	117.4	101.7	97.4
80°	156.1	163.3	169.0	163.3	148.9	130.3	108.8	87.4	71.6	58.7	55.9
82.5°	114.6	123.2	127.5	121.7	107.4	93.1	77.3	61.6	45.8	35.8	32.9
85°	44.4	45.8	51.6	61.6	60.1	58.7	47.3	34.4	25.8	18.6	17.2
87.5°	11.5	10.0	11.5	11.5	10.0	8.6	8.6	8.6	8.6	4.3	5.7
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)