

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: P450230

Luminaire Tested: **GALN-SA1A-730-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450230
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1A-730-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 615mA 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: 4125 lumens
Efficiency: N/A
Efficacy: 125.0 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

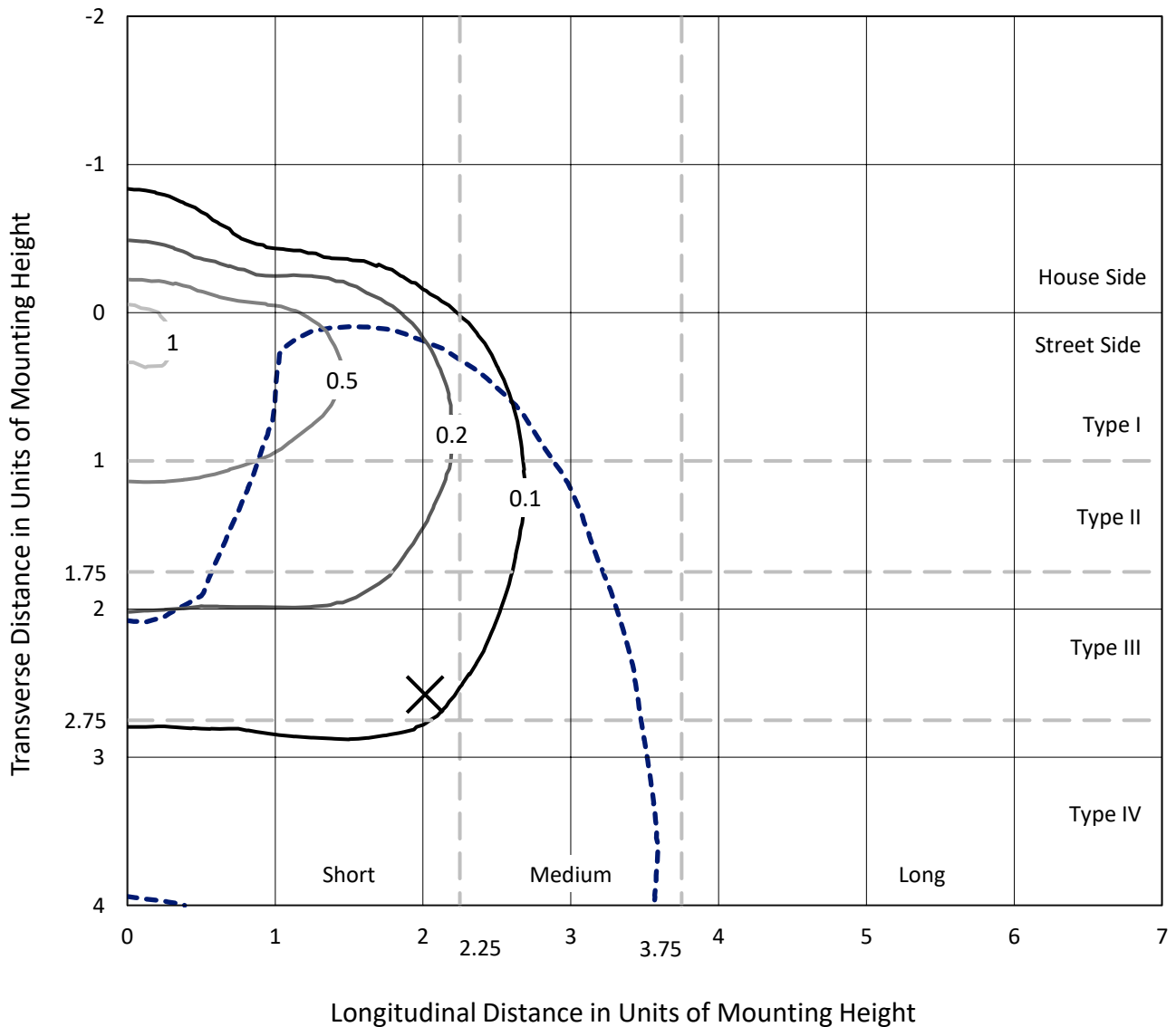
Input Watts (W): 33
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P450230
 CATALOG NUMBER: GALN-SA1A-730-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

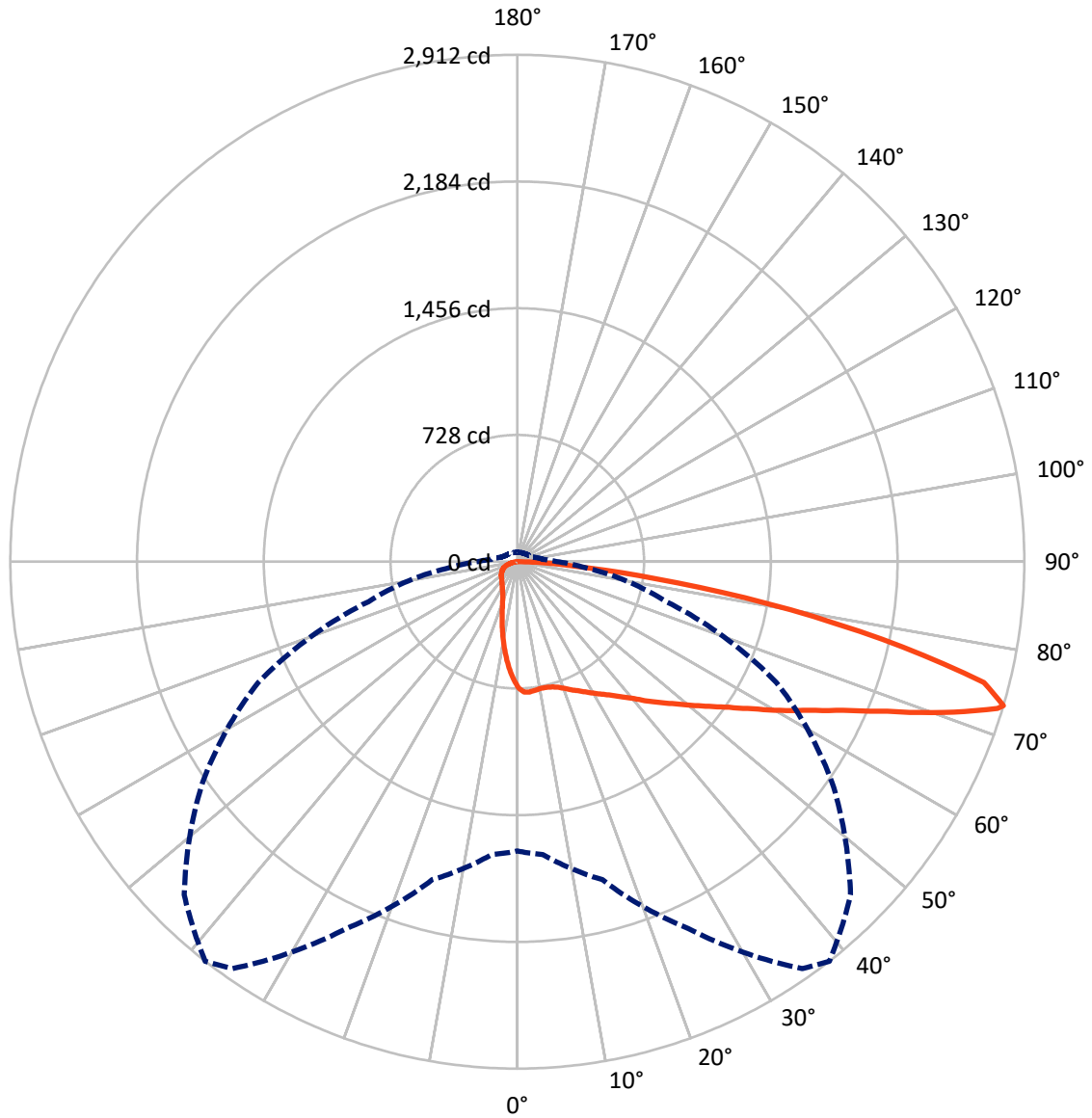
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type IV - Short - N/A

REPORT NUMBER: P450230
CATALOG NUMBER: GALN-SA1A-730-U-SL4

Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

REPORT NUMBER: P450230

CATALOG NUMBER: GALN-SA1A-730-U-SL4

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	554.5	0.0	554.5
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	3570.5	0.0	3570.5
	% Fixture	86.6	0.0	86.6
Total	Lumens	4125.0	0.0	4125.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.3	1.5
10°-20°	162.2	3.9
20°-30°	252.6	6.1
30°-40°	370.5	9.0
40°-50°	549.6	13.3
50°-60°	778.7	18.9
60°-70°	987.8	23.9
70°-80°	822.2	19.9
80°-90°	138.1	3.3
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°	4125.0	100.0
0°-180°	4125.0	100.0

Coefficient of Utilization



REPORT NUMBER: P450230

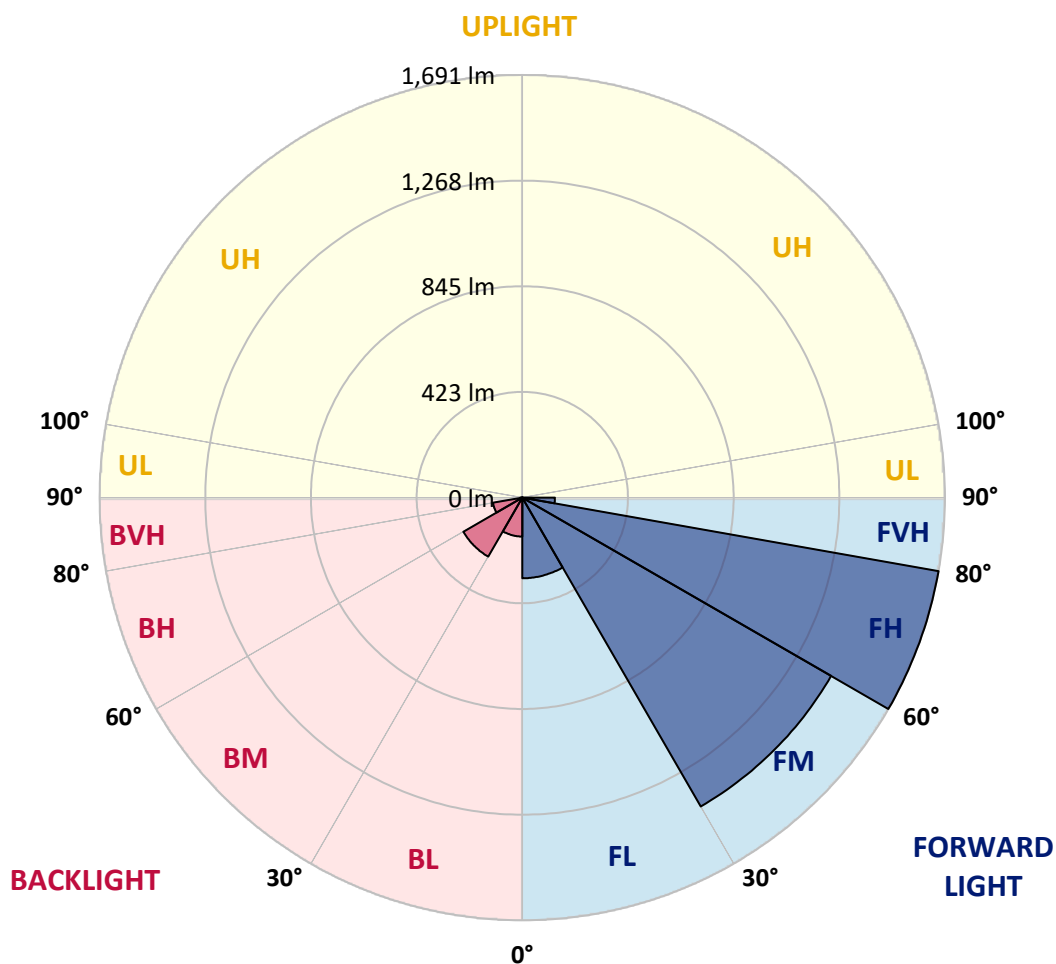
CATALOG NUMBER: GALN-SA1A-730-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	322.5	7.8			
FM (30°-60°)	1426.5	34.6			
FH (60°-80°)	1690.8	41.0			G1/1800
FVH (80°-90°)	130.7	3.2			G2/225
BL (0°-30°)	155.6	3.8	B1/500		
BM (30°-60°)	272.2	6.6	B1/1000		
BH (60°-80°)	119.2	2.9	B1/500		G1/500
BVH (80°-90°)	7.5	0.2			G0/10
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: P450230

CATALOG NUMBER: GALN-SA1A-730-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	724.7	724.7	724.7	724.7	724.7	724.7	724.7	724.7	724.7	724.7	724.7
2.5°	753.8	757.5	755.7	753.1	751.5	749.9	747.5	740.8	735.4	729.6	720.5
5°	759.4	761.7	760.1	756.8	753.1	751.5	747.1	738.2	729.6	719.8	706.3
7.5°	756.1	757.1	755.2	751.2	748.0	745.0	739.8	730.1	719.6	707.7	690.0
10°	744.5	748.0	748.0	744.7	741.5	739.8	734.7	725.4	715.8	702.3	681.4
12.5°	734.9	738.7	741.7	740.8	740.5	740.5	736.6	729.6	718.4	705.6	680.7
15°	728.4	732.8	739.4	743.1	745.4	746.1	744.5	738.4	727.0	712.1	683.5
17.5°	727.0	732.4	744.3	752.4	758.5	758.2	757.8	749.4	736.8	721.4	687.0
20°	733.3	740.3	756.8	769.7	778.5	776.9	774.3	763.4	748.7	731.4	690.2
22.5°	752.2	759.4	777.6	791.5	800.2	800.2	792.5	778.0	762.4	743.1	694.6
25°	779.2	787.1	806.5	820.7	824.6	821.6	813.9	796.4	778.5	759.9	704.0
27.5°	812.3	821.8	839.8	851.6	850.5	848.2	840.2	817.9	799.9	782.9	719.8
30°	853.5	860.5	879.1	881.9	877.7	877.3	866.1	843.7	827.0	813.9	742.4
32.5°	892.4	898.7	913.6	914.8	907.3	908.3	897.8	877.3	867.7	863.1	780.4
35°	933.6	936.9	949.7	948.3	943.4	942.7	938.5	919.0	922.0	930.4	834.2
37.5°	968.1	974.6	981.9	983.0	982.8	985.1	987.9	978.6	996.1	1022.4	904.8
40°	999.8	1005.4	1016.1	1019.8	1028.9	1033.6	1043.1	1043.4	1083.7	1127.0	991.6
42.5°	1021.2	1030.8	1050.8	1057.6	1079.7	1093.7	1107.9	1123.0	1181.5	1237.2	1094.1
45°	1039.9	1052.4	1085.8	1106.7	1136.8	1153.8	1183.8	1215.5	1299.6	1372.5	1198.3
47.5°	1068.1	1079.2	1117.4	1154.5	1199.9	1219.5	1264.4	1311.7	1421.7	1501.6	1298.0
50°	1107.2	1113.9	1152.8	1213.2	1271.2	1296.3	1355.7	1424.0	1552.1	1629.0	1385.6
52.5°	1157.3	1160.1	1191.0	1271.4	1347.8	1379.0	1457.8	1537.4	1666.3	1739.6	1455.0
55°	1216.4	1211.8	1236.0	1333.1	1435.4	1476.2	1560.7	1652.3	1794.6	1829.1	1505.5
57.5°	1274.9	1267.7	1287.0	1408.2	1543.5	1592.6	1691.2	1770.6	1909.2	1912.7	1540.9
60°	1336.9	1331.5	1354.6	1496.2	1676.0	1734.3	1825.4	1893.4	2020.1	1970.9	1546.5
62.5°	1400.5	1391.8	1424.7	1595.2	1825.4	1878.2	1966.5	2023.8	2128.9	1992.6	1492.7
65°	1462.2	1458.2	1509.0	1712.8	1995.4	2055.5	2141.2	2180.1	2216.0	1960.0	1359.2
67.5°	1527.9	1535.8	1616.9	1869.9	2217.2	2292.6	2385.1	2348.6	2240.9	1805.6	1144.7
70°	1628.1	1633.2	1758.5	2075.5	2503.0	2594.1	2638.8	2408.4	2120.7	1512.3	860.5
72.5°	1671.1	1693.7	1885.0	2291.5	2827.7	2883.4	2724.1	2274.9	1766.7	1027.3	452.1
73°	1661.6	1688.6	1890.8	2324.3	2853.1	2911.6	2705.9	2206.2	1642.3	884.7	387.6
75°	1542.6	1575.9	1815.1	2296.8	2803.7	2768.8	2413.8	1880.3	1109.8	402.3	176.6
77.5°	1217.1	1226.7	1438.2	1854.7	2207.9	2143.1	1806.5	1175.2	453.3	149.6	100.2
80°	610.5	645.7	810.6	1062.5	1476.4	1455.2	1140.3	555.8	188.9	87.8	66.4
82.5°	293.7	318.7	394.8	518.1	815.8	796.4	564.7	303.8	120.0	51.2	39.1
85°	189.2	207.8	251.3	247.2	335.4	320.3	253.7	229.9	71.0	26.8	27.3
87.5°	124.9	136.7	164.0	131.1	122.1	110.4	112.0	129.5	14.0	10.2	3.7
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: P450230
 CATALOG NUMBER: GALN-SA1A-730-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	724.7	724.7	724.7	724.7	724.7	724.7	724.7	724.7	724.7	724.7	724.7
2.5°	716.8	713.7	703.7	693.9	684.6	675.8	670.0	662.3	657.1	658.5	660.6
5°	698.8	692.1	674.4	657.1	640.8	621.5	605.9	593.3	583.8	580.3	579.6
7.5°	680.0	668.6	643.2	613.6	585.9	561.9	534.1	520.4	504.3	498.7	496.9
10°	668.6	653.2	617.5	576.3	534.6	494.8	464.7	440.3	418.1	413.9	411.8
12.5°	665.3	645.0	597.0	543.9	488.5	439.6	395.1	362.9	341.5	336.6	329.4
15°	663.4	638.3	577.9	511.3	441.0	381.3	334.5	297.0	277.4	264.4	264.6
17.5°	661.8	630.6	556.5	475.7	400.0	331.2	279.5	245.8	227.8	220.8	220.1
20°	659.5	621.5	531.8	438.2	353.1	285.6	238.8	213.6	201.5	195.7	195.4
22.5°	658.5	612.6	507.6	400.0	311.7	250.4	211.7	194.0	186.4	182.4	182.4
25°	660.9	606.4	482.2	363.6	274.9	220.4	193.1	181.0	176.6	174.5	173.8
27.5°	668.1	603.6	457.0	327.3	241.1	199.9	180.5	172.1	168.9	167.3	167.5
30°	681.8	603.3	432.3	291.4	215.9	184.3	170.5	164.7	162.1	161.2	161.0
32.5°	704.0	608.5	408.1	261.8	194.7	171.2	161.2	157.0	155.8	155.1	154.9
35°	741.5	622.9	384.1	234.8	178.4	159.6	152.3	150.2	148.6	149.3	149.6
37.5°	792.0	647.8	361.3	213.6	166.1	150.9	144.9	143.0	142.1	142.8	143.5
40°	859.8	683.7	342.2	196.6	157.2	143.7	138.4	136.7	135.8	137.0	137.2
42.5°	934.6	725.2	326.4	183.3	150.0	137.7	132.5	130.7	130.0	130.7	130.9
45°	1011.4	773.4	318.2	173.8	144.0	133.2	127.9	125.8	124.2	123.7	124.4
47.5°	1087.2	815.3	318.0	168.0	139.1	129.3	123.5	121.1	119.0	117.9	117.6
50°	1148.9	848.6	323.6	165.4	134.9	124.9	119.0	116.7	113.9	111.6	112.0
52.5°	1195.5	870.3	326.1	164.2	132.5	120.2	114.4	112.3	109.0	106.0	106.0
55°	1225.5	875.4	319.8	163.1	130.7	115.3	109.0	107.2	103.9	100.9	100.9
57.5°	1235.8	859.6	297.2	160.3	128.8	111.1	103.7	102.0	99.5	96.4	96.0
60°	1212.0	806.0	257.6	151.9	125.1	106.7	97.8	97.1	96.2	93.6	93.4
62.5°	1120.5	692.3	214.5	140.9	118.8	102.0	92.5	93.6	94.3	92.9	92.7
65°	968.1	562.1	183.3	125.8	110.4	95.5	86.7	89.7	91.5	91.5	91.1
67.5°	785.3	431.6	154.4	112.7	99.9	86.7	80.1	82.5	83.9	83.4	84.6
70°	558.1	292.3	125.8	97.8	86.7	76.6	71.7	71.7	70.8	70.3	70.3
72.5°	270.7	167.0	102.0	81.8	73.8	65.5	61.5	59.9	58.0	57.8	56.6
73°	226.2	149.8	97.4	78.7	70.8	63.8	59.4	56.8	55.7	54.7	54.5
75°	137.7	113.7	81.3	66.4	60.3	55.0	51.0	48.7	47.5	46.8	46.6
77.5°	90.6	84.8	63.1	50.8	46.1	42.9	41.2	38.9	38.2	37.3	37.3
80°	67.6	64.8	45.2	35.9	33.1	30.3	29.8	29.4	27.5	26.3	25.9
82.5°	43.6	46.1	30.7	24.0	21.0	18.6	18.9	19.6	17.7	16.1	15.6
85°	31.0	33.3	18.6	10.9	8.9	7.7	8.6	7.7	7.9	6.3	5.1
87.5°	5.1	8.9	3.3	1.4	0.7	0.5	0.0	0.0	0.0	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)