

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: P458520

Luminaire Tested: **GALN-SA1A-735-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458520
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1A-735-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4303 lumens
Efficiency: N/A
Efficacy: 130.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

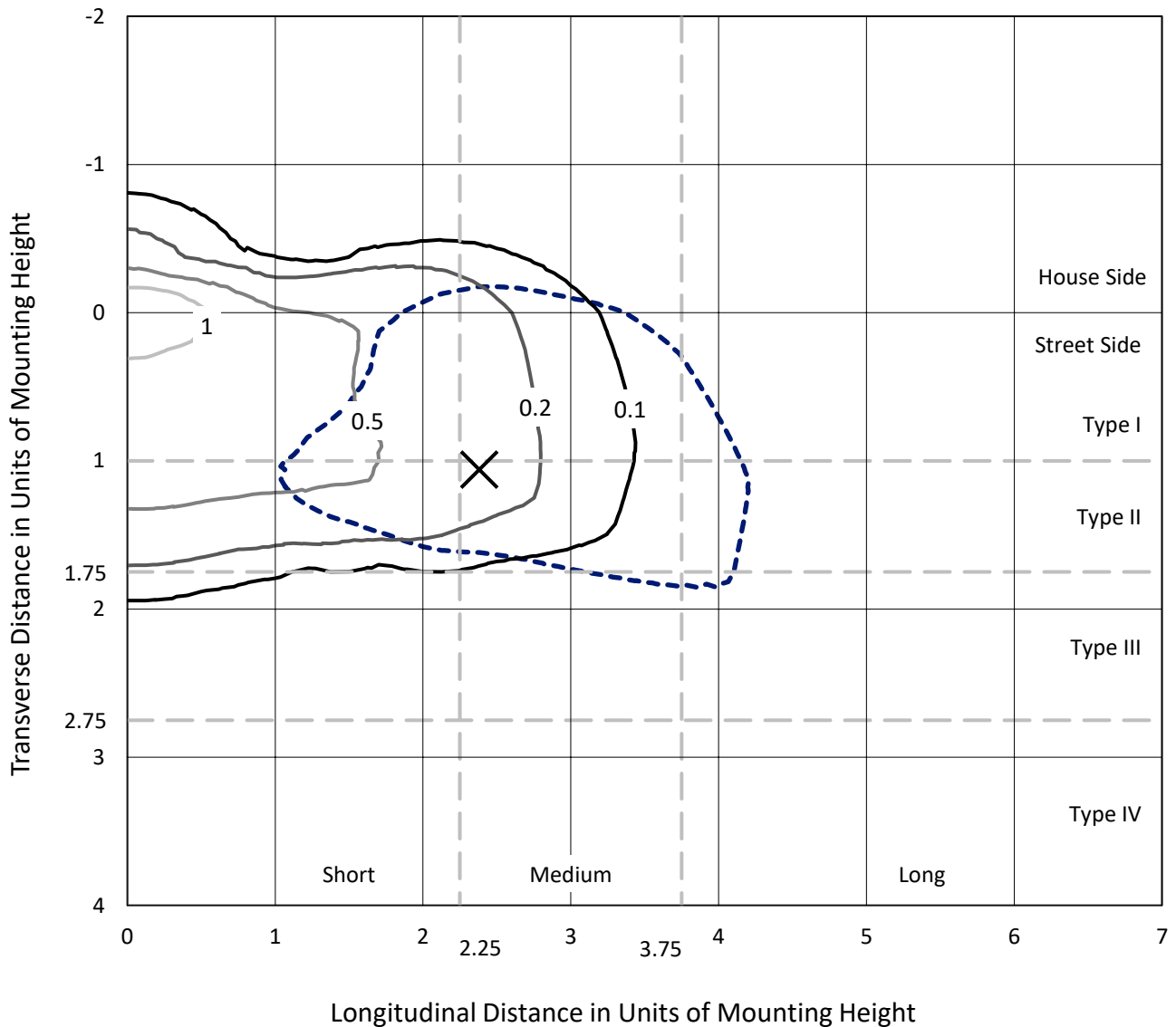
Input Watts (W): 33
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P458520
 CATALOG NUMBER: GALN-SA1A-735-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

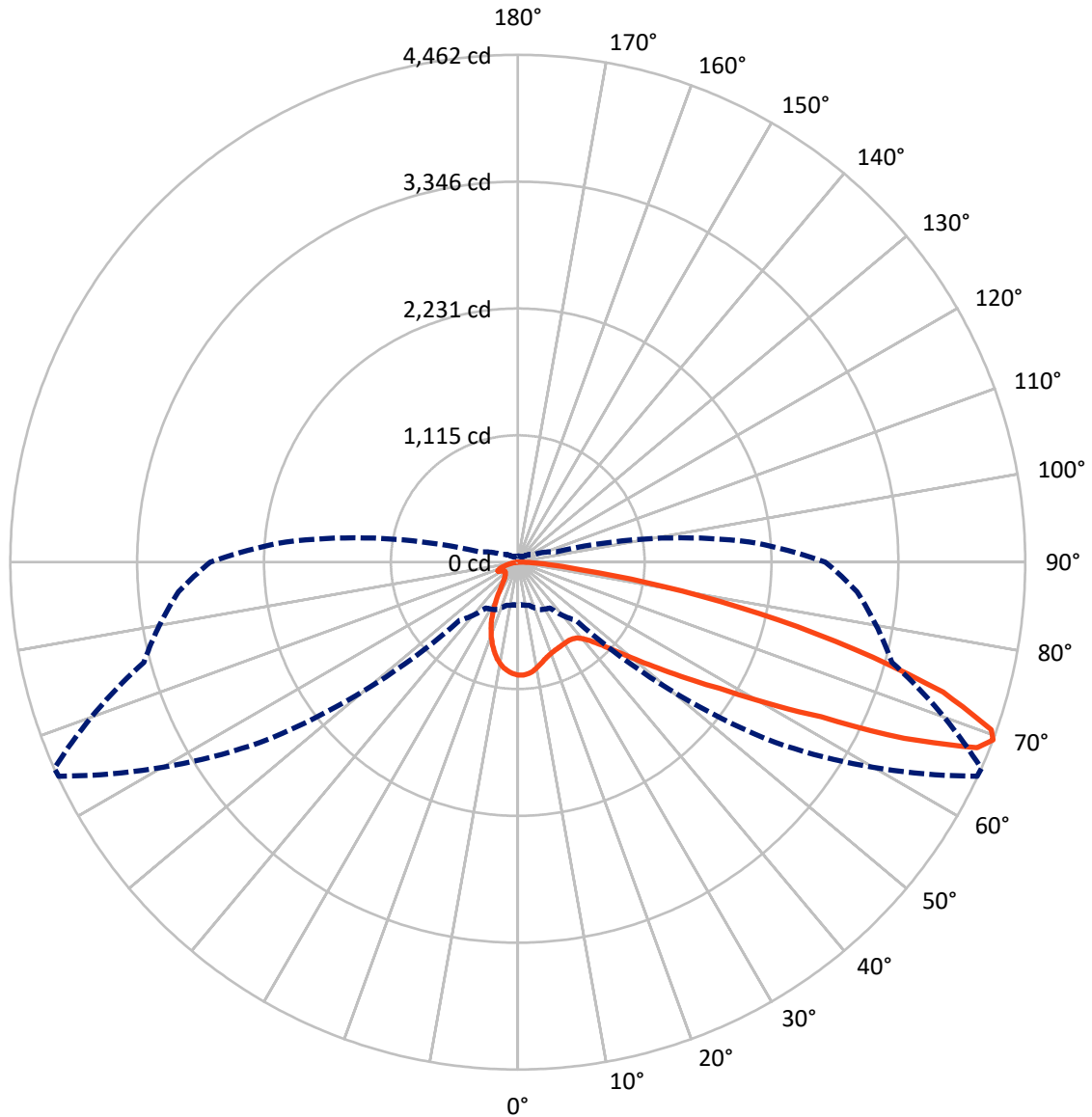
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P458520
CATALOG NUMBER: GALN-SA1A-735-U-SL2

Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	809.2	0.0	809.2
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	3493.8	0.0	3493.8
	% Fixture	81.2	0.0	81.2
Total	Lumens	4303.0	0.0	4303.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.3	2.0
10°-20°	204.7	4.8
20°-30°	278.6	6.5
30°-40°	374.4	8.7
40°-50°	559.1	13.0
50°-60°	889.3	20.7
60°-70°	1093.8	25.4
70°-80°	711.7	16.5
80°-90°	105.1	2.4
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°	4303.0	100.0
0°-180°	4303.0	100.0

Coefficient of Utilization



REPORT NUMBER: P458520

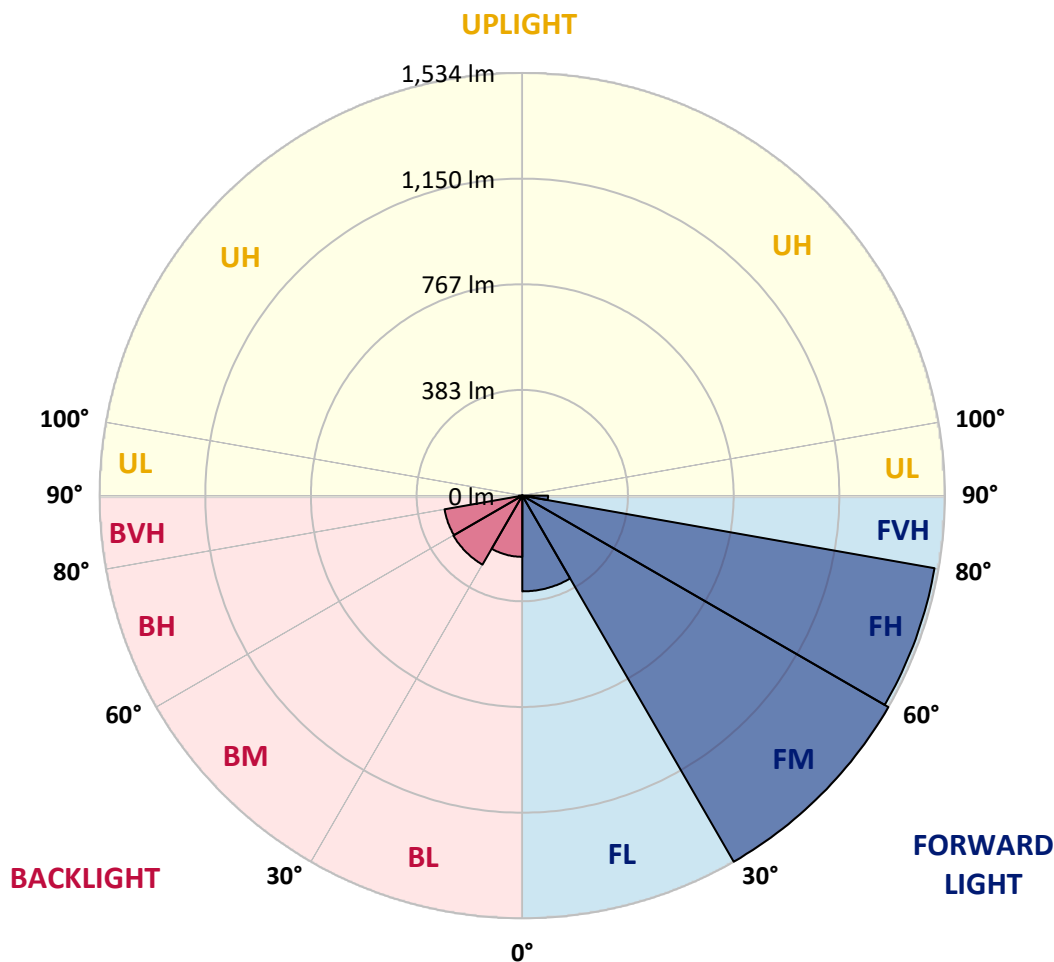
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	347.5	8.1			
FM	(30°-60°)	1533.9	35.6			
FH	(60°-80°)	1519.0	35.3			G1/1800
FVH	(80°-90°)	93.4	2.2			G1/100
BL	(0°-30°)	222.1	5.2	B1/500		
BM	(30°-60°)	288.9	6.7	B1/1000		
BH	(60°-80°)	286.5	6.7	B1/500		G1/500
BVH	(80°-90°)	11.7	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 III Medium





REPORT NUMBER: P458520
 CATALOG NUMBER: GALN-SA1A-735-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	993.7	993.7	993.7	993.7	993.7	993.7	993.7	993.7	993.7	993.7	993.7
2.5°	958.9	962.7	967.0	971.8	980.8	985.8	989.4	993.4	993.9	996.1	994.4
5°	888.1	892.6	899.1	908.1	921.7	942.9	964.8	982.7	984.9	994.9	997.7
7.5°	829.0	831.6	836.9	851.4	870.7	894.3	926.2	962.5	967.7	991.5	999.9
10°	780.9	783.5	789.7	804.7	823.8	853.3	888.4	936.0	940.3	981.3	1000.4
12.5°	744.9	747.3	754.0	768.7	790.7	818.3	856.9	907.4	913.6	967.7	995.8
15°	717.5	722.0	727.5	739.7	762.8	789.5	826.9	881.2	886.2	953.4	992.7
17.5°	705.8	708.0	711.8	723.0	739.9	766.1	803.8	860.7	866.7	943.4	992.0
20°	706.3	708.4	709.2	715.4	727.5	750.1	787.3	844.5	851.7	934.6	993.2
22.5°	722.5	722.7	720.1	718.0	722.7	741.6	775.6	832.4	840.7	930.8	994.2
25°	747.5	751.8	748.0	738.0	729.2	738.2	771.1	825.7	833.5	925.3	993.0
27.5°	788.0	788.8	785.7	772.1	749.2	742.5	769.2	820.7	827.4	921.2	987.0
30°	842.4	840.2	837.4	822.3	786.4	759.0	773.3	816.2	823.1	915.3	979.9
32.5°	897.4	904.1	901.5	883.8	837.1	790.9	786.4	815.7	821.4	910.8	972.0
35°	955.8	958.9	971.3	962.2	914.3	842.6	810.9	823.1	827.6	911.0	966.5
37.5°	1001.5	1009.9	1039.0	1046.8	1001.8	911.0	850.7	844.0	845.9	922.7	968.7
40°	1056.8	1071.1	1108.5	1140.7	1111.2	999.9	918.4	882.9	885.3	950.8	982.7
42.5°	1126.9	1136.9	1187.2	1230.8	1226.0	1117.4	1000.4	946.5	947.7	1006.8	1022.0
45°	1208.9	1223.2	1279.6	1345.2	1356.4	1250.3	1118.8	1042.8	1042.1	1093.8	1095.4
47.5°	1313.7	1322.5	1378.5	1450.0	1495.3	1417.4	1262.5	1181.0	1173.4	1220.5	1207.0
50°	1410.2	1424.0	1466.5	1544.6	1657.3	1613.0	1451.4	1360.2	1342.3	1386.4	1363.5
52.5°	1450.7	1465.3	1501.0	1598.0	1796.3	1866.1	1691.4	1573.9	1544.1	1578.0	1569.6
55°	1380.4	1399.3	1432.6	1550.6	1857.3	2158.0	2015.0	1821.0	1799.4	1784.8	1787.2
57.5°	1191.5	1209.3	1254.4	1384.5	1784.3	2369.8	2477.1	2138.7	2092.2	2025.3	2036.7
60°	906.9	918.1	941.5	1085.7	1568.2	2424.9	3001.8	2540.2	2510.7	2264.7	2272.8
62.5°	644.1	656.7	672.9	744.9	1148.1	2269.7	3412.6	3100.9	2995.3	2512.8	2504.9
65°	523.1	514.5	534.0	567.6	673.7	1759.1	3505.1	3879.2	3733.8	2839.5	2730.4
67.5°	430.1	421.1	440.4	500.2	512.3	1021.1	3171.9	4384.4	4355.3	3194.8	2959.4
69°	380.8	376.0	392.9	461.1	491.8	725.1	2763.2	4454.7	4461.6	3404.3	2994.6
70°	343.1	345.0	361.5	441.3	482.5	597.9	2361.7	4357.7	4416.3	3508.9	2956.5
72.5°	252.6	256.6	279.5	365.5	473.7	507.3	1405.5	3806.3	3909.9	3515.1	2704.6
75°	176.6	174.7	194.9	275.2	447.5	502.8	825.4	2943.6	3061.1	3038.2	2272.6
77.5°	115.6	118.7	134.9	194.4	376.5	499.0	538.1	2088.4	2164.7	2031.9	1344.2
80°	81.5	81.3	90.3	132.7	279.3	479.4	440.6	1316.3	1297.0	798.5	398.7
82.5°	46.7	50.0	60.5	93.4	186.8	422.0	405.3	629.6	574.8	227.6	134.6
85°	26.0	27.2	36.0	56.5	109.1	317.9	353.9	286.4	270.2	95.1	57.9
87.5°	8.3	9.1	15.0	28.6	49.6	150.1	200.4	132.3	122.0	34.3	23.4
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: P458520
 CATALOG NUMBER: GALN-SA1A-735-U-SL2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	993.7	993.7	993.7	993.7	993.7	993.7	993.7	993.7	993.7	993.7	993.7
2.5°	995.1	998.0	990.3	983.0	976.3	967.0	958.7	951.7	947.0	946.3	943.9
5°	998.4	998.7	984.2	964.6	945.5	924.6	902.9	887.4	872.9	864.8	860.7
7.5°	1000.8	998.7	972.5	940.8	904.1	866.0	827.8	797.3	773.7	764.4	768.0
10°	999.9	993.2	954.8	904.1	850.7	793.8	738.9	696.1	656.7	636.5	637.0
12.5°	994.6	983.7	928.6	862.9	784.5	708.2	624.3	566.4	520.9	494.0	485.6
15°	990.1	971.0	897.9	806.9	709.4	600.5	498.3	426.8	388.7	367.4	367.2
17.5°	985.3	958.9	864.3	747.5	623.1	483.0	375.8	321.2	303.3	305.5	301.9
20°	980.3	944.6	829.3	681.5	518.0	360.3	281.4	259.3	264.3	274.0	275.5
22.5°	974.6	929.3	791.6	608.8	407.5	271.2	228.3	224.9	237.8	253.1	255.2
25°	965.8	910.3	744.2	532.8	314.3	218.5	199.9	202.3	214.9	227.8	229.2
27.5°	953.4	886.7	696.3	438.0	236.1	187.5	182.8	185.9	192.1	199.9	201.8
30°	936.7	860.0	641.2	356.0	189.2	172.0	170.1	171.8	175.4	178.7	179.7
32.5°	920.0	834.3	585.7	272.6	168.7	161.8	159.9	159.9	159.9	160.4	160.6
35°	904.6	810.0	526.2	212.3	158.0	153.7	151.1	148.2	147.7	146.1	146.1
37.5°	896.0	787.8	462.8	177.8	150.1	147.0	143.5	138.7	136.1	136.3	135.8
40°	897.7	773.3	405.1	158.2	143.7	140.4	134.9	129.4	127.7	127.7	127.2
42.5°	916.5	768.5	349.8	148.0	137.5	133.7	126.8	121.8	120.8	120.6	121.1
45°	959.8	780.2	300.2	141.3	132.3	126.5	119.6	115.1	114.1	114.1	113.9
47.5°	1044.4	818.1	264.7	137.0	128.4	121.1	113.9	109.4	107.7	107.2	107.2
50°	1176.0	900.3	238.3	133.2	123.7	116.0	108.7	103.4	100.8	100.6	100.3
52.5°	1358.7	1028.5	228.0	130.3	118.4	110.8	102.7	97.7	94.4	93.6	93.2
55°	1572.5	1207.4	242.1	128.2	113.0	104.8	96.5	91.3	88.2	86.7	86.5
57.5°	1820.1	1422.4	295.5	125.3	107.9	98.4	90.3	85.1	81.7	80.1	79.6
60°	2042.4	1643.3	388.7	123.7	103.7	91.5	83.2	78.4	75.3	73.6	73.4
62.5°	2286.7	1853.9	499.9	128.2	101.8	84.8	76.5	72.2	69.6	67.9	67.9
65°	2547.6	2064.8	573.6	143.5	104.6	79.6	69.3	65.8	63.4	62.2	62.0
67.5°	2723.5	2137.7	472.5	159.2	111.8	73.9	62.4	59.6	58.1	57.0	57.0
69°	2704.4	2045.5	348.6	163.2	113.9	71.0	58.6	56.5	54.6	54.1	53.6
70°	2644.1	1940.4	292.1	160.6	112.2	68.4	56.2	53.6	51.9	51.5	51.2
72.5°	2355.1	1682.8	217.6	139.6	95.6	59.3	49.8	47.4	46.0	45.3	45.3
75°	1956.6	1375.4	169.9	111.0	74.8	50.0	42.7	40.7	39.6	39.1	38.8
77.5°	1096.6	768.0	122.0	87.0	56.7	40.5	35.7	34.1	32.9	32.4	32.4
80°	305.5	219.5	71.7	57.4	38.6	30.7	28.4	27.2	25.5	24.3	25.0
82.5°	115.1	95.1	41.0	34.6	24.5	20.5	19.8	18.8	18.1	16.4	16.4
85°	56.0	46.2	26.2	18.3	13.6	10.7	10.2	9.8	9.3	8.1	8.3
87.5°	19.3	20.5	11.4	6.7	4.1	2.6	2.1	1.2	1.2	1.2	1.2
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)