

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: P458685

Luminaire Tested: **GALN-SA2B-735-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458685
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2B-735-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7711 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

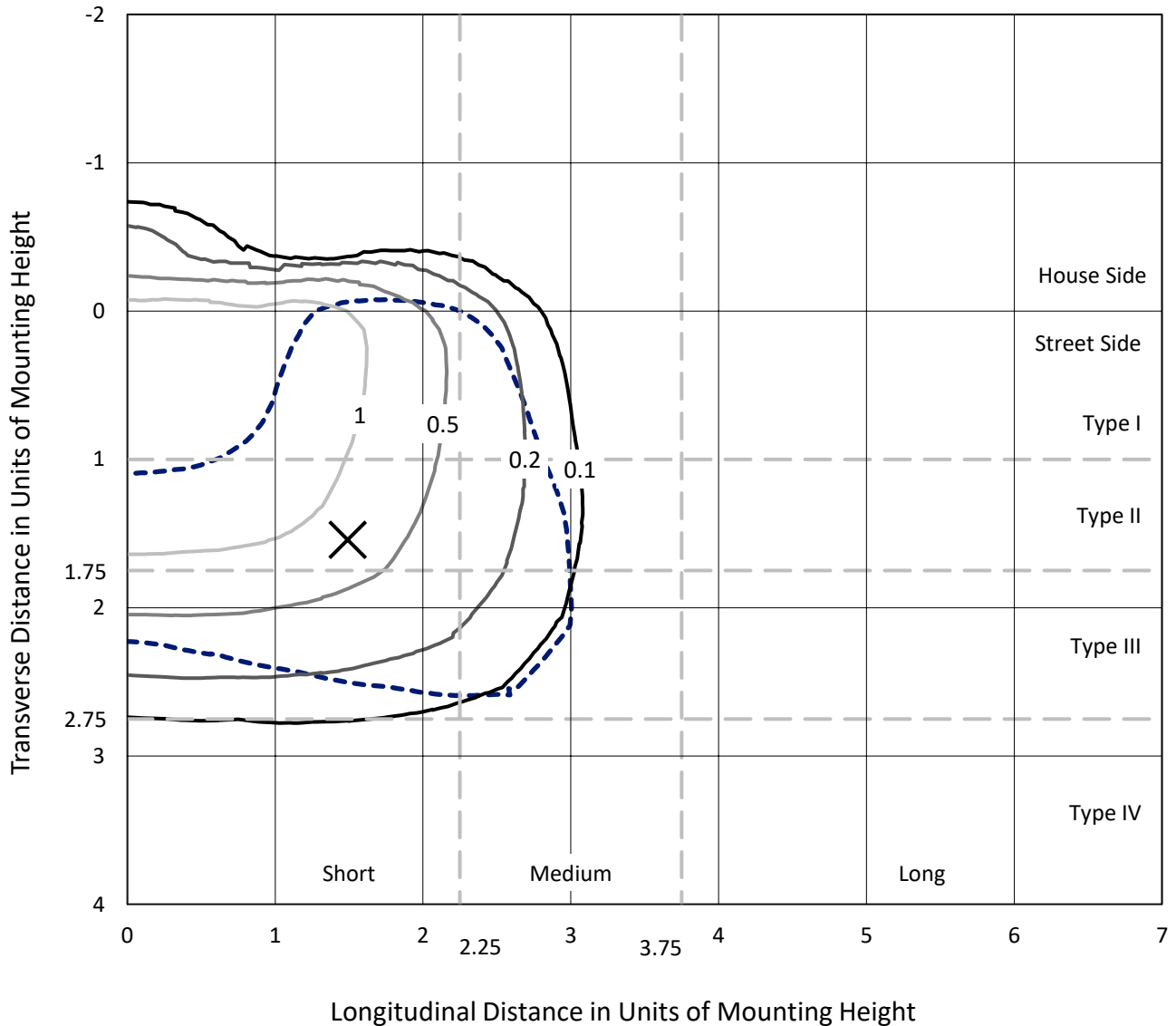
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P458685
 CATALOG NUMBER: GALN-SA2B-735-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

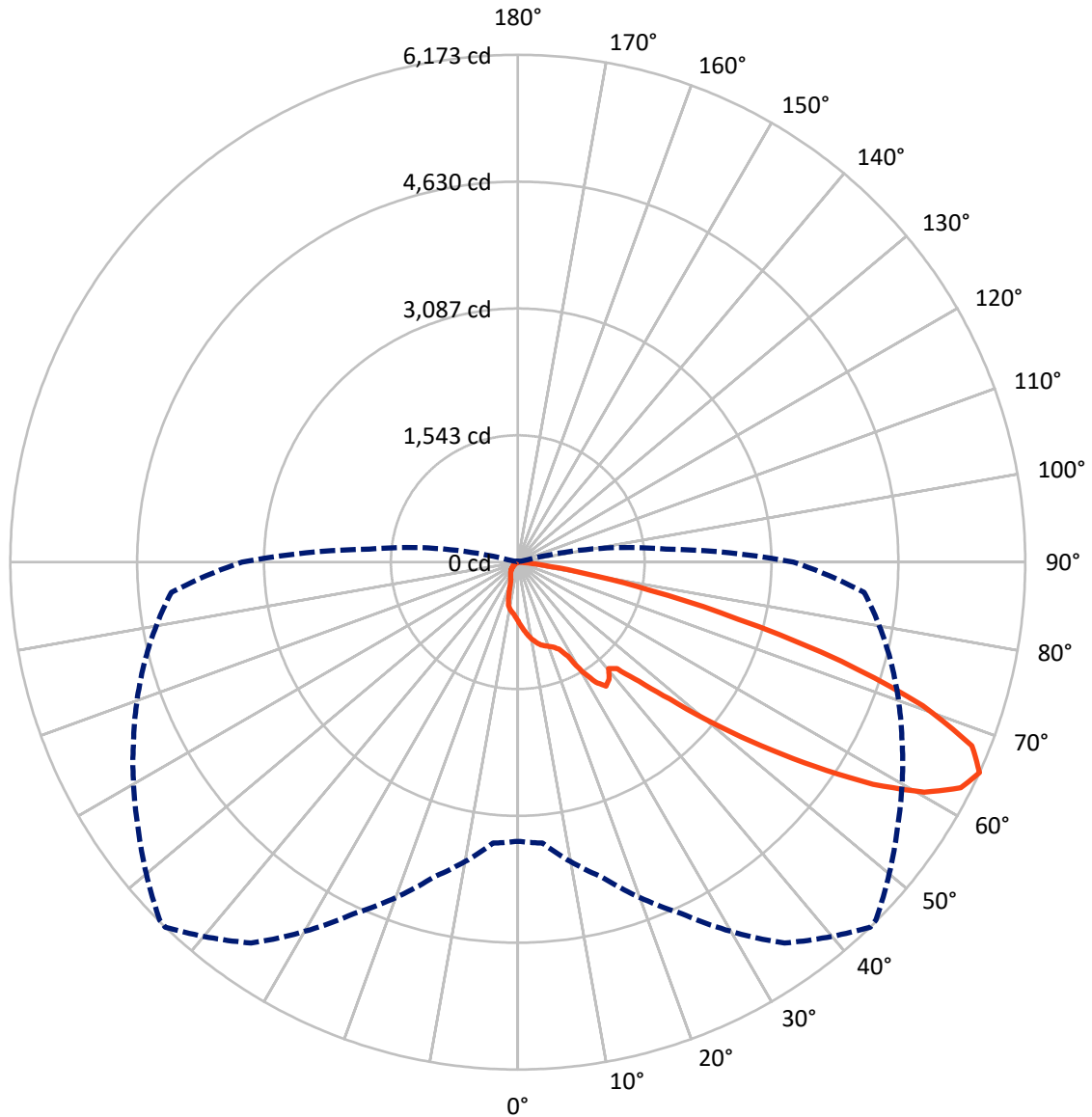
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type III - Short - N/A

REPORT NUMBER: P458685
CATALOG NUMBER: GALN-SA2B-735-U-T4W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P458685
 CATALOG NUMBER: GALN-SA2B-735-U-T4W-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	710.5	0.0	710.5
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	7000.5	0.0	7000.5
	% Fixture	90.8	0.0	90.8
Total	Lumens	7711.0	0.0	7711.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.4	0.9
10°-20°	214.8	2.8
20°-30°	364.3	4.7
30°-40°	605.7	7.9
40°-50°	1057.5	13.7
50°-60°	2066.0	26.8
60°-70°	2397.0	31.1
70°-80°	872.9	11.3
80°-90°	61.5	0.8
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°	7711.0	100.0
0°-180°	7711.0	100.0

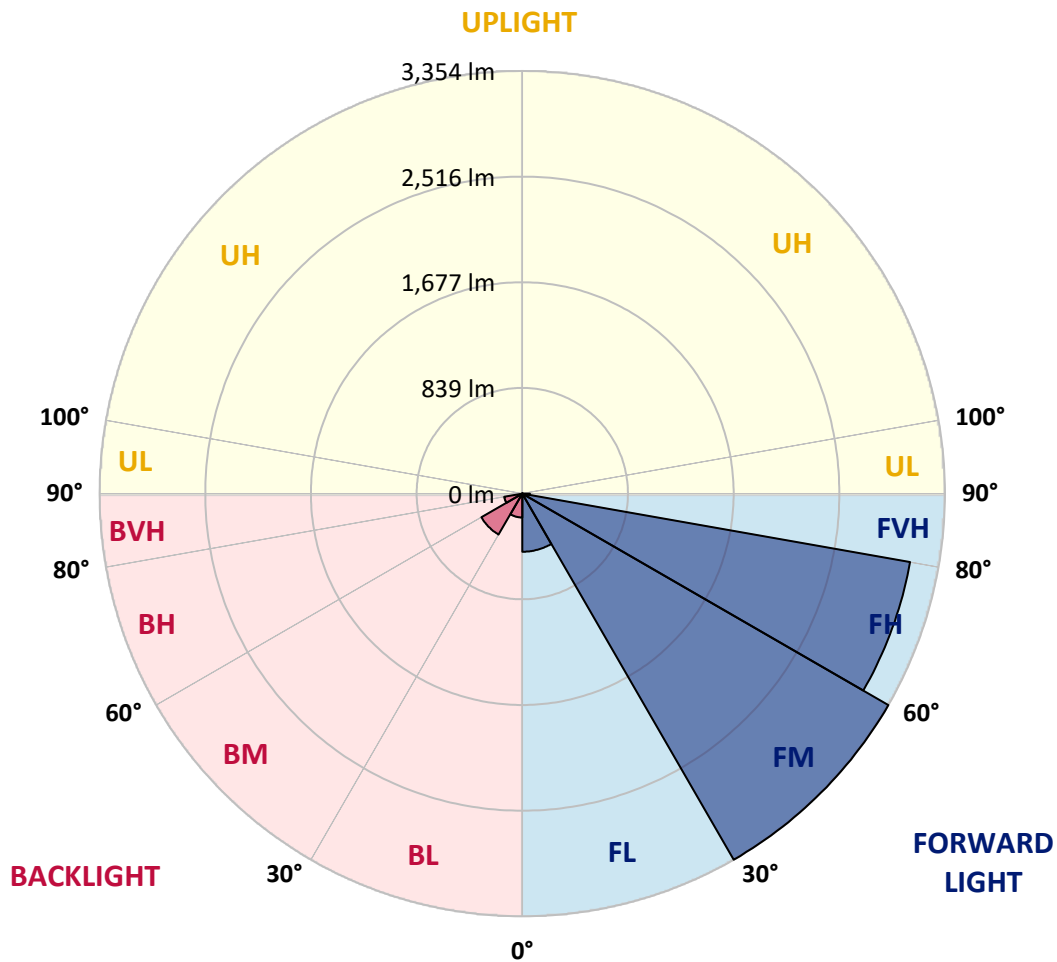


REPORT NUMBER: P458685
 CATALOG NUMBER: GALN-SA2B-735-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	461.2	6.0			
FM (30°-60°)	3354.3	43.5			
FH (60°-80°)	3124.4	40.5			G2/5000
FVH (80°-90°)	60.7	0.8			G1/100
BL (0°-30°)	189.3	2.5	B1/500		
BM (30°-60°)	374.8	4.9	B1/1000		
BH (60°-80°)	145.5	1.9	B1/500		G1/500
BVH (80°-90°)	0.8	0.0			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 III Short





REPORT NUMBER: P458685

CATALOG NUMBER: GALN-SA2B-735-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	717.7	717.7	717.7	717.7	717.7	717.7	717.7	717.7	717.7	717.7	717.7
2.5°	807.8	804.3	802.5	793.1	786.0	777.2	777.2	766.0	753.0	738.9	725.9
5°	898.0	892.1	884.4	876.2	859.7	836.1	836.1	812.5	785.4	761.3	734.8
7.5°	984.6	979.3	966.3	950.4	923.3	898.6	896.8	862.6	830.2	793.7	756.0
10°	1060.6	1056.5	1045.3	1014.6	986.3	953.9	953.4	915.1	877.3	832.6	786.0
12.5°	1113.6	1114.2	1099.5	1070.0	1033.5	1002.8	1000.5	962.8	923.3	875.0	817.8
15°	1151.3	1151.3	1136.0	1103.0	1070.0	1042.9	1040.6	1007.6	966.9	914.5	852.6
17.5°	1161.9	1165.5	1149.0	1119.5	1093.0	1069.4	1068.8	1041.1	1008.7	958.1	887.9
20°	1157.8	1161.3	1148.4	1125.4	1107.1	1093.6	1091.8	1080.6	1050.6	1002.8	925.7
22.5°	1149.0	1152.5	1143.1	1129.5	1120.7	1124.8	1121.9	1131.3	1115.4	1057.6	970.4
25°	1150.7	1154.3	1147.2	1139.5	1147.2	1172.5	1180.2	1220.9	1206.7	1127.2	1018.8
27.5°	1206.1	1213.2	1203.2	1206.7	1233.8	1292.7	1307.5	1377.6	1315.1	1215.6	1094.2
30°	1329.3	1324.6	1305.7	1322.8	1417.1	1542.0	1537.9	1526.7	1428.8	1317.5	1183.7
32.5°	1441.2	1437.1	1435.9	1509.6	1680.4	1741.1	1738.2	1629.8	1530.8	1434.1	1272.1
35°	1486.6	1470.7	1467.1	1645.7	1931.4	1851.3	1833.0	1672.2	1654.5	1561.4	1362.3
37.5°	1623.3	1612.1	1557.3	1668.1	1831.3	1804.8	1790.6	1745.3	1786.5	1674.0	1464.2
40°	1904.9	1873.7	1824.2	1715.8	1689.3	1700.5	1714.6	1838.9	1942.6	1827.7	1600.3
42.5°	2254.9	2247.9	2155.9	1953.8	1755.3	1770.6	1788.9	2034.6	2167.1	2059.3	1822.4
45°	2675.0	2685.1	2552.5	2313.8	2053.4	2066.4	2092.9	2323.3	2471.2	2419.3	2171.8
47.5°	3056.8	3049.2	3004.4	2756.3	2515.9	2487.1	2530.1	2693.9	2891.9	2900.1	2605.5
50°	3441.0	3481.7	3415.1	3317.9	3139.3	3078.6	3062.7	3142.9	3444.6	3405.1	3126.4
52.5°	3993.1	4014.3	3889.4	3864.7	3905.3	3708.5	3692.6	3712.1	3981.9	3846.4	3516.4
55°	4340.2	4327.8	4281.2	4474.5	4635.4	4389.7	4369.6	4291.3	4428.0	4158.1	3891.8
57.5°	4449.8	4467.4	4575.8	4925.3	5305.9	5097.3	5060.8	4838.0	4749.7	4448.6	4237.0
60°	4400.8	4433.3	4667.2	5186.9	5714.8	5683.6	5652.3	5278.2	4980.6	4691.3	4479.2
62.5°	4052.6	4098.0	4472.1	5140.3	5853.3	6048.3	6009.4	5552.8	5134.4	4809.2	4521.6
65°	3396.2	3429.8	3967.2	4717.8	5656.5	6173.2	6159.1	5638.8	5158.6	4701.3	4231.2
67.5°	2421.1	2535.4	3033.3	3976.0	5074.3	5959.9	5984.1	5535.7	4931.7	4235.3	3504.1
70°	1521.9	1599.7	1956.8	2846.5	4067.9	5228.7	5308.2	5063.7	4280.1	3301.4	2345.7
72.5°	725.9	783.7	1038.2	1801.8	2871.2	4113.9	4176.9	4156.9	3309.6	2079.9	1210.2
75°	323.5	345.3	495.5	919.8	1853.7	2765.2	2928.4	2955.5	2068.1	1017.6	470.8
77.5°	165.0	165.6	232.2	445.4	925.7	1649.8	1682.2	1777.1	1121.3	448.4	163.8
80°	87.8	93.7	123.1	210.3	480.2	812.5	808.4	888.5	497.3	219.8	54.8
82.5°	39.5	43.6	69.5	110.2	234.5	308.2	332.3	363.5	213.3	140.2	24.2
85°	11.8	14.1	34.2	55.4	84.8	89.0	99.6	128.4	120.8	99.6	12.4
87.5°	1.8	1.8	14.1	15.3	12.4	15.9	16.5	18.3	38.9	36.5	6.5
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: P458685

CATALOG NUMBER: GALN-SA2B-735-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	717.7	717.7	717.7	717.7	717.7	717.7	717.7	717.7	717.7	717.7	717.7
2.5°	718.8	714.7	700.0	687.6	677.0	670.5	662.9	658.2	655.8	654.0	654.6
5°	721.8	711.8	686.4	666.4	651.1	634.6	623.4	616.9	614.0	609.2	609.2
7.5°	738.3	722.4	687.0	656.4	629.9	607.5	586.3	578.6	573.3	572.1	570.9
10°	761.9	741.8	693.5	651.1	613.4	582.7	552.7	526.2	505.5	493.2	491.4
12.5°	791.3	762.4	703.5	647.5	599.2	545.0	465.5	411.9	375.9	364.7	366.5
15°	818.4	787.2	713.5	644.6	573.3	451.9	361.8	300.5	282.2	280.5	281.1
17.5°	850.8	813.7	725.3	640.5	502.0	345.3	268.7	252.2	255.7	261.6	261.0
20°	884.4	842.0	739.5	615.7	400.7	259.8	237.5	239.2	244.5	249.8	251.0
22.5°	920.4	874.4	756.0	556.2	305.8	226.3	225.1	227.4	232.7	238.6	239.8
25°	969.8	915.1	768.3	478.4	231.6	209.2	211.5	215.7	220.4	226.8	228.0
27.5°	1033.5	969.8	774.8	377.1	200.3	193.9	194.4	200.3	206.2	212.1	212.1
30°	1116.0	1035.3	761.9	285.2	185.0	179.1	176.8	180.3	188.0	193.9	194.4
32.5°	1189.6	1097.1	727.7	218.0	173.8	165.6	159.7	160.3	163.2	166.7	167.3
35°	1263.3	1157.2	669.3	183.2	162.0	152.6	143.8	139.1	136.7	134.9	136.7
37.5°	1357.6	1232.0	591.6	166.7	152.0	140.2	127.9	117.8	109.6	104.3	105.5
40°	1478.9	1335.8	499.7	156.1	142.6	128.4	112.0	99.0	84.8	80.1	77.8
42.5°	1679.3	1493.1	403.0	147.3	133.2	116.1	95.5	77.8	64.8	60.1	61.3
45°	1995.7	1691.6	310.5	137.9	123.7	102.5	80.1	61.3	50.7	48.3	49.5
47.5°	2415.2	1948.5	239.2	127.3	112.0	87.8	63.0	48.3	41.8	41.2	40.7
50°	2810.0	2187.8	199.7	115.5	97.8	73.1	51.9	40.7	36.5	35.9	35.9
52.5°	3167.0	2359.2	162.6	101.9	82.5	60.1	43.6	35.9	32.4	30.6	30.6
55°	3484.6	2471.2	132.0	85.4	64.8	47.7	37.7	32.4	28.3	25.9	25.3
57.5°	3724.4	2484.7	99.0	68.3	48.3	37.1	32.4	28.3	23.6	20.6	19.4
60°	3827.0	2367.5	73.1	51.9	35.9	29.5	25.9	23.0	17.7	14.7	14.1
62.5°	3723.8	2139.4	54.2	39.5	27.7	21.8	18.3	17.1	12.4	8.8	8.2
65°	3354.4	1810.1	43.0	30.0	20.6	15.9	11.8	11.2	7.7	4.1	3.5
67.5°	2687.4	1417.7	34.2	22.4	14.7	10.6	7.7	7.1	4.1	1.2	1.2
70°	1747.6	906.2	27.7	16.5	9.4	7.1	4.7	3.5	2.4	0.6	0.0
72.5°	864.4	423.6	22.4	13.0	6.5	3.5	1.8	1.2	1.8	0.0	0.0
75°	335.3	150.8	16.5	8.8	3.5	1.8	1.2	0.0	0.6	0.0	0.0
77.5°	111.4	50.1	10.0	4.7	2.4	1.2	0.0	0.0	0.0	0.0	0.0
80°	41.2	19.4	5.3	2.9	1.2	0.6	0.0	0.0	0.0	0.0	0.0
82.5°	16.5	7.7	3.5	2.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.2	4.7	2.4	1.8	1.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.9	3.5	2.4	1.8	1.2	0.6	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)