

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: P451516

Luminaire Tested: **GALN-SA2B-827-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451516
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2B-827-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6176 lumens
Efficiency: N/A
Efficacy: 75.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

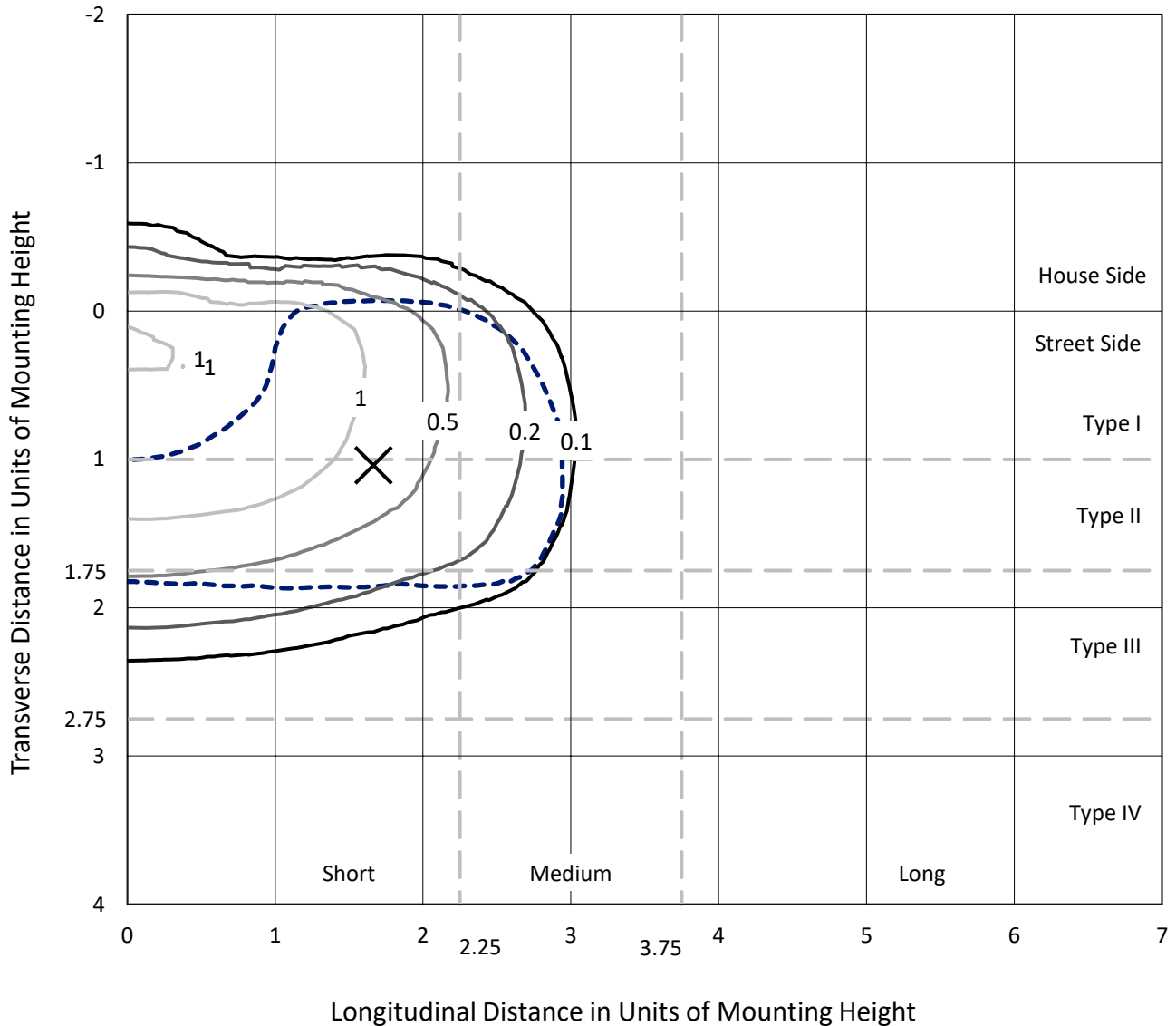
Input Watts (W): 82
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

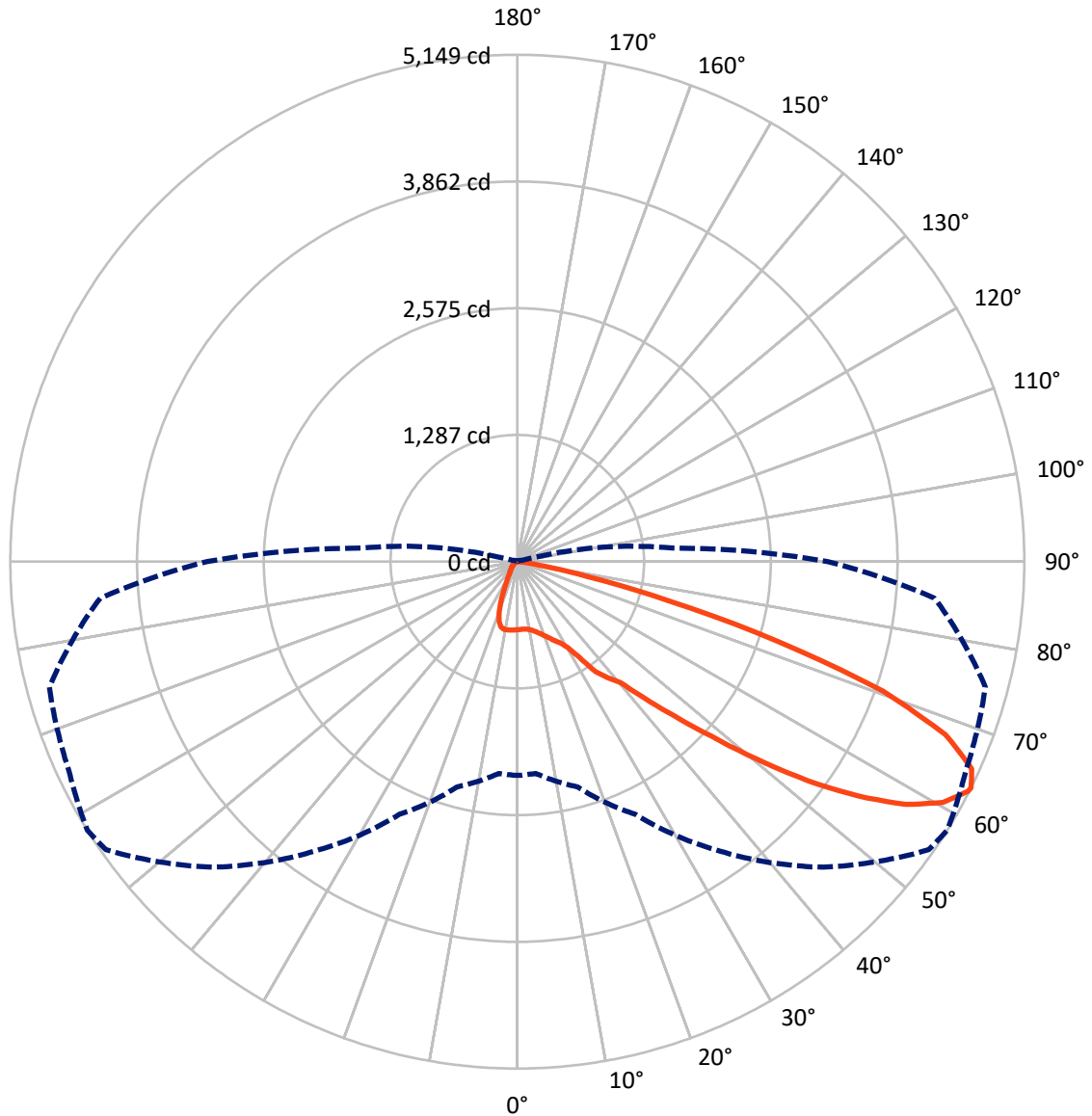
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	639.5	0.0	639.5
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	5536.5	0.0	5536.5
	% Fixture	89.6	0.0	89.6
Total	Lumens	6176.0	0.0	6176.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.7	1.0
10°-20°	176.3	2.9
20°-30°	306.0	5.0
30°-40°	562.2	9.1
40°-50°	1058.4	17.1
50°-60°	1810.3	29.3
60°-70°	1733.4	28.1
70°-80°	442.0	7.2
80°-90°	22.6	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°	6176.0	100.0
0°-180°	6176.0	100.0

Coefficient of Utilization



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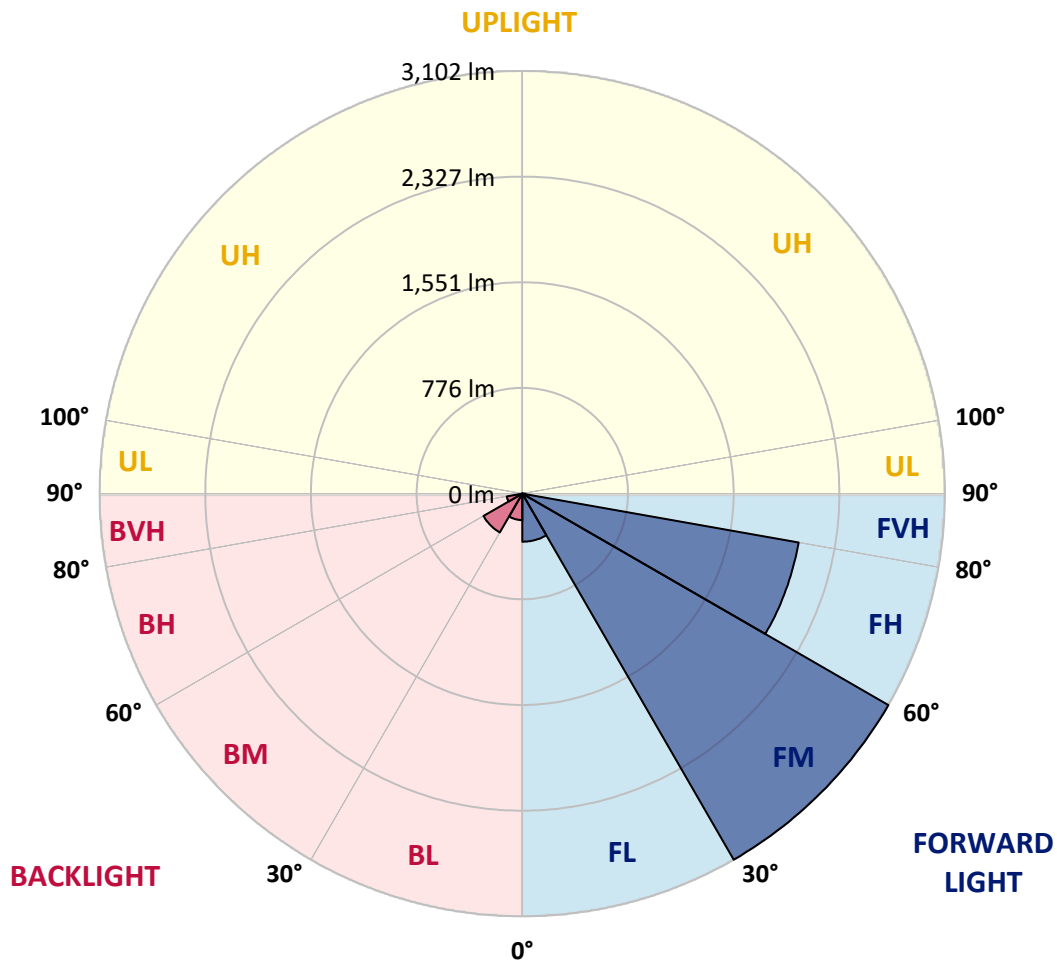
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	353.0	5.7			
FM (30°-60°)	3102.1	50.2			
FH (60°-80°)	2059.7	33.3			G2/5000
FVH (80°-90°)	21.7	0.4			G1/100
BL (0°-30°)	193.9	3.1	B1/500		
BM (30°-60°)	328.9	5.3	B1/1000		
BH (60°-80°)	115.8	1.9	B1/500		G1/500
BVH (80°-90°)	0.9	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	691.4	691.4	691.4	691.4	691.4	691.4	691.4	691.4	691.4	691.4	691.4
2.5°	674.2	676.5	678.9	679.8	683.1	686.3	688.6	688.2	691.9	693.8	693.8
5°	647.3	647.3	653.3	658.9	668.2	677.5	686.3	688.2	695.1	701.7	704.0
7.5°	624.5	625.9	630.5	640.7	653.3	669.6	687.2	691.4	703.5	717.9	724.0
10°	613.8	614.7	620.7	631.4	647.3	669.6	694.2	702.1	720.7	743.5	751.9
12.5°	611.5	612.8	618.9	631.0	649.1	676.1	709.6	717.9	744.9	774.2	786.7
15°	615.6	616.6	622.6	635.6	655.6	687.7	730.0	741.6	773.7	807.7	823.9
17.5°	630.5	629.6	633.8	644.5	666.8	702.1	754.7	768.6	806.3	852.8	863.5
20°	693.8	687.7	684.0	674.7	683.5	722.6	784.4	804.9	851.4	898.8	906.2
22.5°	830.0	816.5	790.0	753.7	725.8	750.5	820.2	843.9	903.9	950.4	950.4
25°	1003.4	986.2	959.7	880.7	812.3	796.5	860.7	890.4	961.1	1008.1	992.7
27.5°	1220.6	1207.1	1155.5	1063.4	958.8	877.0	907.6	935.1	1011.8	1068.5	1036.4
30°	1397.3	1390.8	1348.4	1266.1	1150.8	1031.3	995.1	1013.2	1079.2	1144.8	1111.8
32.5°	1546.5	1546.5	1503.3	1426.6	1318.7	1212.7	1143.4	1156.4	1219.6	1295.4	1234.1
35°	1710.7	1705.1	1670.2	1597.2	1476.3	1382.9	1354.5	1372.2	1429.4	1485.6	1334.5
37.5°	1883.2	1881.3	1845.0	1774.4	1675.8	1558.2	1491.7	1496.3	1525.6	1560.0	1452.1
40°	2070.6	2073.4	2025.9	1982.2	1889.2	1768.8	1641.4	1612.1	1639.5	1736.7	1669.3
42.5°	2291.9	2285.4	2264.9	2205.4	2130.5	2058.5	1905.5	1894.8	1919.0	2023.1	1950.1
45°	2549.0	2558.3	2523.0	2490.0	2439.8	2379.8	2251.9	2233.3	2259.8	2421.6	2317.9
47.5°	2806.6	2797.8	2820.6	2814.5	2841.5	2796.9	2683.9	2645.7	2709.4	2862.9	2710.4
50°	3002.8	3012.6	3060.0	3129.3	3245.1	3270.2	3161.9	3148.9	3177.2	3275.8	3061.4
52.5°	3130.3	3162.8	3237.2	3415.3	3624.1	3786.3	3704.0	3697.1	3685.4	3711.9	3397.2
55°	3213.5	3246.5	3343.7	3605.9	3965.4	4229.0	4233.2	4203.4	4126.7	4107.6	3711.0
57.5°	3162.3	3168.8	3307.4	3658.0	4154.6	4544.7	4681.4	4651.7	4509.9	4437.8	3988.1
60°	2842.4	2855.9	3048.9	3460.9	4072.3	4648.0	4978.6	4965.1	4809.8	4728.4	4203.9
62.5°	2275.6	2314.7	2513.2	2972.6	3689.6	4474.0	5099.0	5137.1	5016.2	4904.2	4271.8
63°	2171.5	2158.9	2368.6	2830.3	3588.3	4388.0	5100.8	5149.2	5025.5	4920.9	4253.2
65°	1607.4	1645.1	1781.3	2231.9	2986.1	3987.7	4986.0	5071.6	4991.1	4847.0	4047.2
67.5°	902.5	900.7	1051.3	1460.5	2090.1	3127.9	4508.5	4689.3	4672.6	4349.4	3354.8
70°	441.7	448.7	510.5	757.0	1212.2	2158.0	3746.4	3941.6	3947.7	3416.2	2319.8
72.5°	199.9	203.2	247.4	368.7	623.1	1149.0	2581.6	2768.0	2733.6	2177.0	1281.0
75°	105.6	112.5	136.2	185.5	300.4	473.8	1404.2	1584.7	1512.6	994.6	471.5
77.5°	78.1	80.4	92.5	118.1	160.9	184.6	605.9	720.7	675.2	359.9	156.2
80°	57.2	59.1	68.8	83.7	101.4	93.9	228.3	261.8	234.8	122.3	47.9
82.5°	34.9	35.3	50.2	62.3	63.7	52.5	75.3	80.9	84.6	68.8	26.0
85°	12.6	15.8	33.9	45.1	37.7	26.5	31.6	34.9	38.1	43.7	15.3
87.5°	1.4	1.9	16.3	21.9	10.7	9.8	11.6	13.0	13.9	16.3	7.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	691.4	691.4	691.4	691.4	691.4	691.4	691.4	691.4	691.4	691.4	691.4
2.5°	695.6	697.5	696.1	693.8	693.3	691.9	689.1	689.1	689.1	690.0	689.1
5°	705.8	707.2	704.0	699.3	694.2	687.7	680.7	676.5	676.1	675.2	672.8
7.5°	725.4	727.2	719.8	708.6	694.7	678.9	664.0	650.0	643.5	638.4	638.4
10°	753.7	755.6	740.7	720.7	692.8	660.7	625.4	593.3	568.2	556.6	553.8
12.5°	787.7	788.6	764.0	729.1	683.1	621.2	545.9	475.7	426.9	404.5	402.2
15°	824.9	818.4	785.8	732.3	655.2	539.8	409.6	323.6	272.9	258.1	263.6
17.5°	862.5	850.5	802.6	727.2	592.4	409.6	275.3	220.9	205.1	200.9	200.9
20°	897.9	881.1	814.6	704.9	483.6	282.2	204.1	191.1	188.3	185.5	186.0
22.5°	933.2	907.6	825.3	655.2	360.4	201.8	182.7	178.6	174.8	171.1	170.6
25°	967.6	932.3	829.5	563.1	245.5	173.4	166.9	161.3	153.9	149.7	148.8
27.5°	1003.4	962.0	826.7	446.8	179.0	155.3	148.8	140.9	132.1	124.6	124.6
30°	1072.2	1018.8	817.0	321.3	150.7	136.7	128.3	115.8	106.0	98.6	98.1
32.5°	1166.2	1092.7	783.5	226.0	133.9	120.4	107.9	93.9	83.7	78.1	78.1
35°	1249.9	1167.1	720.7	166.5	120.4	104.6	89.3	75.8	67.9	64.2	62.8
37.5°	1377.3	1275.9	634.2	135.3	107.4	90.7	74.9	62.3	55.8	53.0	53.0
40°	1568.4	1408.9	528.2	118.6	94.9	77.2	62.3	52.5	47.4	44.2	44.2
42.5°	1805.5	1571.6	420.8	106.5	83.2	66.5	52.1	44.6	40.0	37.7	37.2
45°	2104.0	1743.2	324.1	95.3	73.9	56.7	44.2	37.7	33.0	31.6	32.1
47.5°	2415.6	1894.3	251.1	85.6	64.2	47.9	37.7	32.5	29.3	27.4	27.4
50°	2681.5	1998.5	190.6	74.4	56.7	40.5	33.0	29.3	26.5	25.6	25.1
52.5°	2903.8	2028.7	146.0	64.6	49.8	34.9	29.3	26.5	24.2	22.8	22.8
55°	3093.1	2002.2	114.4	54.4	41.8	30.2	26.0	23.7	20.9	19.5	19.1
57.5°	3203.7	1917.1	87.4	45.1	33.9	25.1	22.8	20.0	16.7	14.4	14.4
60°	3259.5	1793.4	67.0	37.2	26.0	20.0	18.6	14.9	11.6	9.8	9.3
62.5°	3192.6	1629.3	50.7	29.3	19.5	14.9	12.6	10.7	7.4	5.6	5.6
63°	3151.2	1581.9	48.8	27.9	18.1	13.9	11.6	9.8	6.5	5.1	4.6
65°	2872.7	1374.9	40.0	22.3	14.4	9.8	7.9	7.0	4.6	2.3	1.9
67.5°	2281.2	1051.8	31.6	16.7	10.2	7.0	4.6	4.2	1.4	0.0	0.0
70°	1542.3	679.3	24.6	12.1	7.0	4.2	2.3	1.9	0.5	0.0	0.0
72.5°	804.4	348.3	19.1	8.8	4.2	2.8	1.4	0.5	0.0	0.0	0.0
75°	284.6	118.6	13.9	5.6	2.8	1.4	0.5	0.0	0.0	0.0	0.0
77.5°	86.0	44.2	8.8	4.2	1.9	0.9	0.0	0.0	0.0	0.0	0.0
80°	30.2	16.3	5.1	2.8	1.4	0.5	0.0	0.0	0.0	0.0	0.0
82.5°	14.9	7.9	3.3	2.3	1.4	0.5	0.0	0.0	0.0	0.0	0.0
85°	8.4	5.1	2.8	2.3	1.4	0.9	0.0	0.0	0.0	0.0	0.0
87.5°	6.0	3.7	2.8	2.3	1.9	0.9	0.5	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)