

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: P450802

Luminaire Tested: **GALN-SA1C-827-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450802
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1C-827-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4285 lumens
Efficiency: N/A
Efficacy: 75.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G0

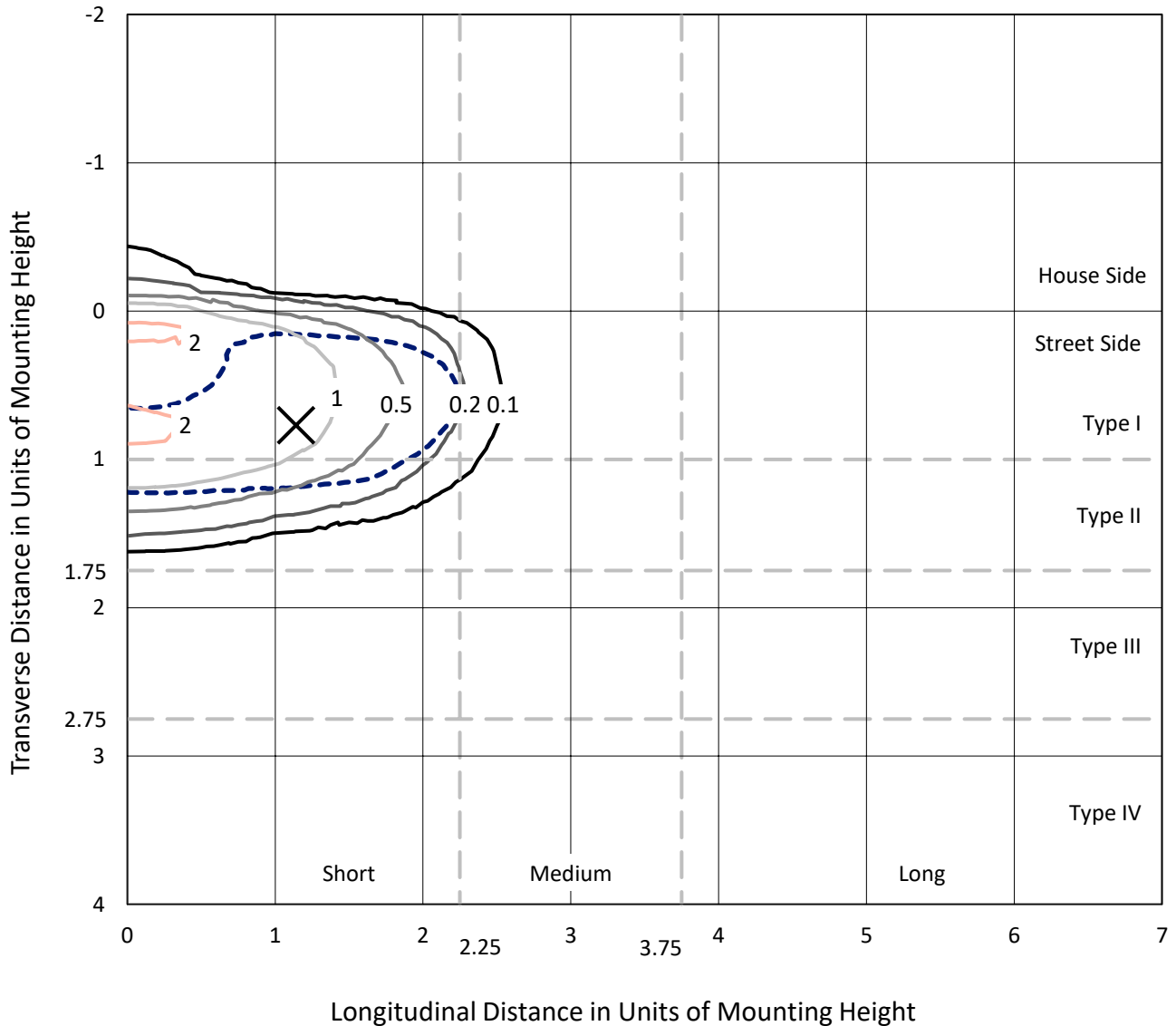
Input Watts (W): 57
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

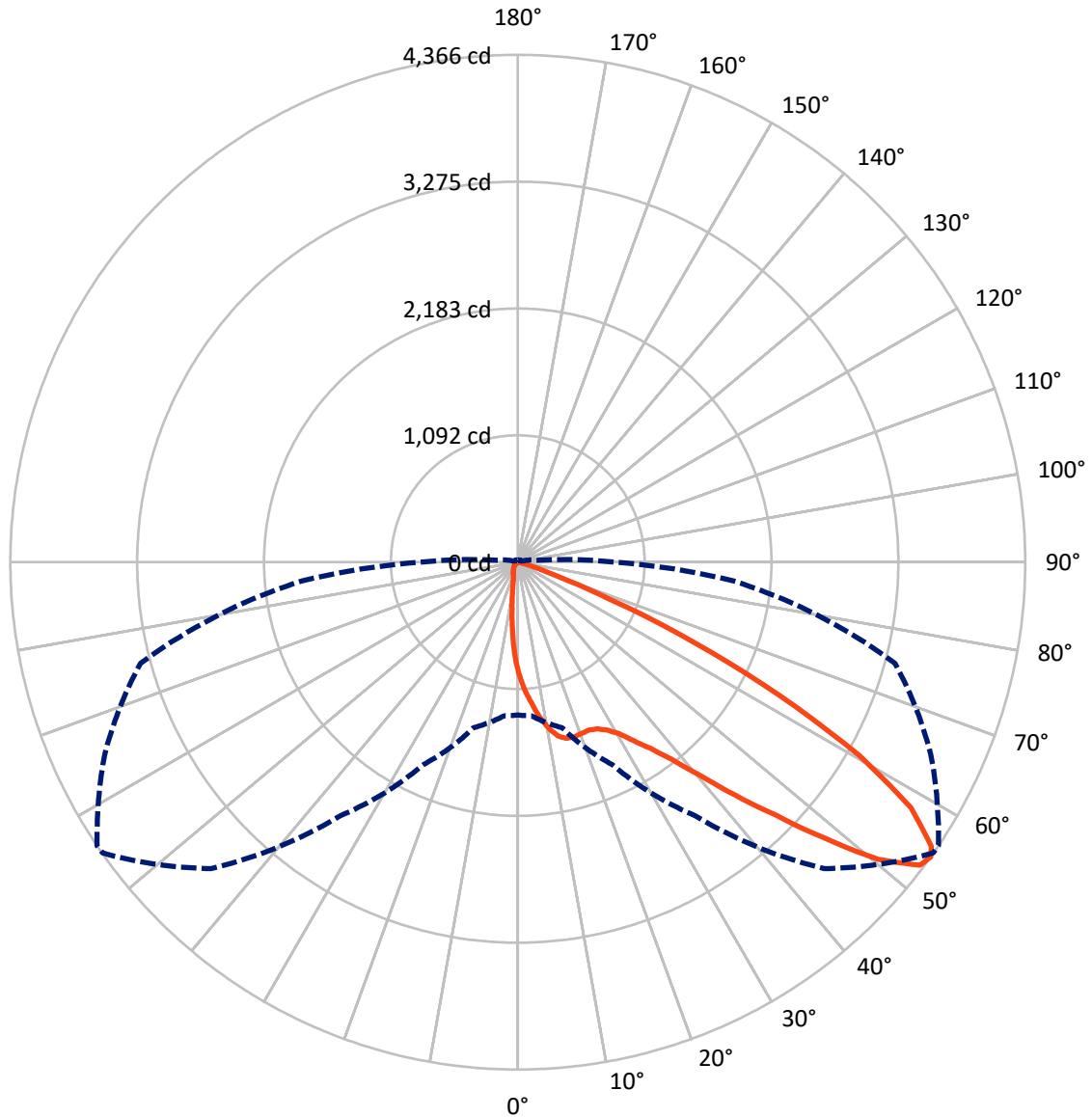
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	202.6	0.0	202.6
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	4082.4	0.0	4082.4
	% Fixture	95.3	0.0	95.3
Total	Lumens	4285.0	0.0	4285.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.1	2.0
10°-20°	227.4	5.3
20°-30°	393.9	9.2
30°-40°	679.9	15.9
40°-50°	1157.2	27.0
50°-60°	1145.2	26.7
60°-70°	522.7	12.2
70°-80°	67.1	1.6
80°-90°	7.6	0.2
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°	4285.0	100.0
0°-180°	4285.0	100.0

Coefficient of Utilization

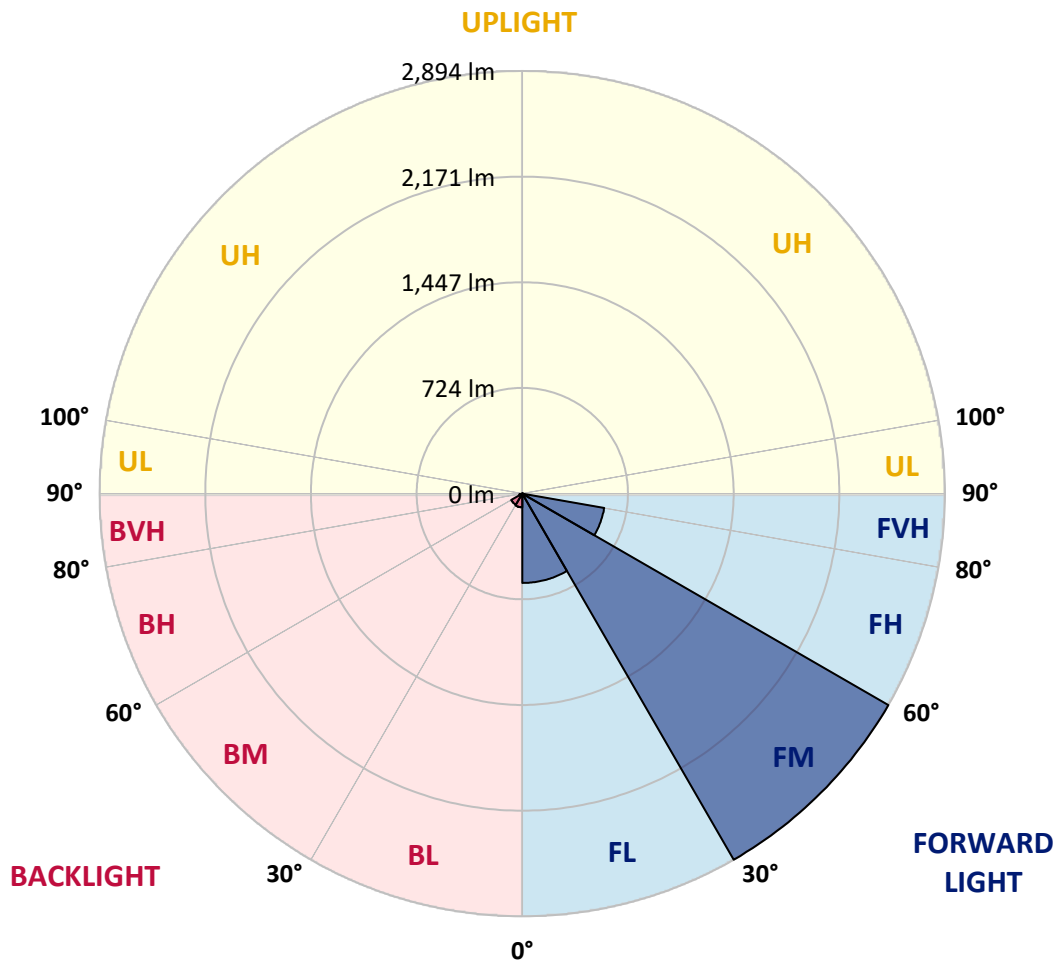


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	611.7	14.3			
FM (30°-60°)	2894.4	67.5			
FH (60°-80°)	569.5	13.3			G0/660
FVH (80°-90°)	6.8	0.2			G0/10
BL (0°-30°)	93.7	2.2	B0/110		
BM (30°-60°)	87.8	2.0	B0/220		
BH (60°-80°)	20.3	0.5	B0/110		G0/110
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: B0-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	952.0	952.0	952.0	952.0	952.0	952.0	952.0	952.0	952.0	952.0	952.0
2.5°	1209.9	1201.5	1189.9	1181.0	1159.9	1129.5	1097.4	1097.4	1066.5	1023.4	979.5
5°	1395.5	1390.0	1378.7	1355.6	1331.9	1289.4	1224.9	1213.6	1158.4	1080.4	998.3
7.5°	1470.9	1473.5	1474.1	1468.0	1456.8	1414.9	1351.0	1343.2	1255.0	1150.3	1022.8
10°	1398.7	1411.4	1423.8	1449.0	1484.5	1494.6	1458.5	1450.4	1363.7	1221.2	1049.4
12.5°	1291.1	1298.1	1305.0	1344.6	1416.0	1497.8	1535.7	1535.4	1462.0	1291.7	1083.3
15°	1241.1	1247.2	1247.8	1265.4	1327.3	1446.4	1568.7	1573.0	1558.0	1378.7	1119.7
17.5°	1251.5	1256.4	1252.4	1256.7	1289.1	1389.7	1564.9	1579.3	1635.7	1462.3	1152.6
20°	1319.4	1329.0	1313.4	1301.2	1311.1	1374.7	1552.2	1572.4	1690.7	1543.8	1182.7
22.5°	1441.4	1446.7	1427.0	1393.7	1376.4	1406.2	1548.7	1568.7	1737.5	1610.6	1200.1
25°	1577.0	1575.3	1553.6	1516.3	1479.9	1469.8	1571.5	1589.5	1776.2	1670.7	1205.3
27.5°	1712.6	1717.8	1681.4	1635.1	1591.5	1565.2	1622.7	1636.0	1819.9	1739.2	1211.6
30°	1870.2	1861.8	1826.0	1773.0	1723.0	1686.3	1705.1	1708.9	1880.0	1830.0	1228.4
32.5°	2075.2	2052.0	2011.8	1919.3	1883.5	1821.3	1826.0	1830.6	1953.2	1919.9	1248.6
35°	2353.3	2352.1	2273.5	2148.9	2061.6	1984.4	1964.1	1967.9	2063.9	2053.5	1293.4
37.5°	2688.0	2692.7	2603.0	2477.6	2316.8	2194.3	2152.6	2153.2	2232.1	2237.9	1361.7
40°	2960.7	2972.8	2919.3	2834.6	2675.9	2484.2	2414.3	2407.9	2468.6	2461.4	1459.1
42.5°	3078.0	3089.3	3109.3	3138.8	3051.4	2893.3	2728.2	2736.9	2755.4	2704.8	1568.4
45°	3020.5	3038.4	3116.8	3298.9	3381.0	3327.8	3130.9	3100.6	3022.2	2969.3	1678.2
47.5°	2780.8	2824.5	2955.5	3258.7	3546.1	3725.9	3585.4	3545.2	3289.4	3162.5	1748.2
50°	2386.8	2389.4	2571.8	2959.5	3460.5	3977.1	4049.4	4019.3	3538.3	3270.9	1783.5
52.5°	1730.3	1787.2	1954.3	2403.3	3089.9	3939.0	4345.2	4332.7	3795.0	3326.4	1834.3
54°	1315.4	1326.4	1475.0	1920.5	2664.0	3729.4	4363.4	4366.3	3922.5	3359.9	1864.4
55°	1078.3	1052.0	1208.1	1636.0	2373.5	3544.1	4303.8	4317.7	3979.7	3377.3	1886.7
57.5°	511.1	511.4	630.8	863.0	1486.5	2751.9	3939.8	3989.0	3986.1	3407.0	1955.2
60°	258.7	260.5	286.8	398.4	734.3	1829.4	3257.6	3374.7	3679.4	3411.4	1977.7
62.5°	181.0	179.0	174.6	191.7	309.0	929.7	2425.3	2527.0	3126.0	3246.3	1906.0
65°	155.0	150.6	138.5	135.9	156.1	370.3	1510.5	1676.5	2386.8	2810.9	1701.9
67.5°	132.4	130.7	119.7	113.0	110.4	161.3	779.4	866.7	1631.4	2020.5	1289.1
70°	112.5	111.6	104.9	96.6	89.3	96.6	289.1	358.2	909.2	1087.9	608.3
72.5°	91.4	92.2	93.4	82.7	75.2	68.5	123.4	143.7	380.5	388.8	212.8
75°	80.1	79.2	79.2	72.0	62.7	50.9	67.9	73.1	116.5	108.1	49.4
77.5°	56.4	54.4	63.6	59.3	52.3	36.1	38.7	41.1	48.3	41.3	23.1
80°	39.0	39.0	40.8	53.2	47.1	26.3	23.7	25.4	28.6	24.6	13.3
82.5°	22.0	22.5	26.6	28.3	27.5	17.6	15.6	15.9	19.1	16.8	8.4
85°	2.6	4.3	15.3	15.0	11.3	7.8	8.7	9.0	11.9	10.4	4.9
87.5°	0.3	0.6	3.2	4.0	2.9	3.2	3.2	3.2	4.0	4.6	3.5
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°	952.0	952.0	952.0	952.0	952.0	952.0	952.0	952.0	952.0	952.0	952.0
2.5°	955.8	933.8	881.5	820.8	782.0	719.0	665.8	627.3	617.8	599.3	604.8
5°	954.6	908.9	802.3	689.5	569.2	479.6	412.8	360.2	337.1	321.8	311.1
7.5°	955.2	883.8	712.6	533.1	389.4	301.5	239.7	207.6	186.2	177.2	178.4
10°	956.9	855.4	608.6	394.9	262.8	194.9	157.0	141.7	134.4	133.3	133.0
12.5°	961.0	824.5	509.1	293.1	183.9	141.7	127.2	122.0	119.7	119.7	118.8
15°	965.3	790.4	426.4	218.0	141.7	121.7	115.1	112.5	111.0	111.0	110.7
17.5°	965.3	751.1	349.2	169.1	122.0	111.9	106.7	103.2	102.1	102.1	101.8
20°	959.2	705.4	280.7	136.2	110.7	102.6	97.4	93.7	92.2	91.6	91.4
22.5°	938.1	644.4	223.5	117.1	101.5	94.5	87.9	83.5	82.4	81.8	82.1
25°	900.5	575.6	176.9	102.9	93.1	84.7	78.9	75.7	74.6	74.6	74.9
27.5°	861.8	503.6	140.2	92.2	83.0	75.5	70.8	68.8	68.5	69.4	69.7
30°	826.0	431.3	113.6	83.5	74.0	67.6	64.5	63.9	63.9	64.2	64.5
32.5°	786.1	368.0	95.1	76.0	66.8	61.3	59.6	59.6	60.1	60.1	60.7
35°	760.9	313.7	83.5	68.8	61.3	56.7	55.5	55.8	56.7	57.8	58.4
37.5°	747.3	270.3	76.0	63.0	56.1	52.9	51.7	52.3	54.4	56.4	56.7
40°	748.5	237.6	70.0	58.1	52.0	48.6	47.7	49.4	51.5	53.5	53.8
42.5°	761.2	213.4	64.2	52.3	48.6	43.7	43.4	45.1	46.0	48.0	48.3
45°	776.2	195.7	58.1	46.3	42.2	37.9	38.2	39.6	40.8	43.9	44.5
47.5°	780.9	183.6	51.2	39.3	34.7	33.2	33.5	34.4	36.7	39.6	39.9
50°	786.1	176.1	44.5	33.2	29.5	29.2	29.5	30.1	31.5	32.7	32.4
52.5°	808.3	175.8	39.0	28.9	25.2	25.7	26.0	25.7	24.6	22.8	22.3
54°	829.1	176.6	36.4	26.9	23.1	24.0	23.7	22.3	19.4	17.6	16.8
55°	845.9	177.5	35.0	25.4	22.0	22.3	22.5	19.7	15.9	14.2	13.6
57.5°	878.9	175.5	31.5	22.3	19.4	18.2	17.9	13.0	8.7	7.5	6.9
60°	862.4	158.4	28.6	19.1	16.5	14.7	12.1	7.2	4.3	3.2	3.2
62.5°	797.6	134.4	25.4	15.6	13.6	11.3	6.4	4.0	2.0	1.2	0.9
65°	713.5	113.0	22.8	12.4	10.7	7.2	3.5	2.6	0.9	0.0	0.0
67.5°	530.5	83.8	19.4	9.8	8.1	4.6	2.3	1.4	0.3	0.0	0.0
70°	245.7	51.2	16.5	7.5	5.8	3.5	1.7	0.9	0.0	0.0	0.0
72.5°	70.5	32.1	13.6	5.5	4.0	2.9	1.4	0.6	0.3	0.0	0.0
75°	24.6	25.7	10.1	4.0	3.2	2.0	1.2	0.6	0.3	0.0	0.0
77.5°	14.7	20.8	6.4	3.5	2.6	1.7	1.2	0.6	0.3	0.3	0.0
80°	8.4	13.9	4.0	2.9	2.3	1.4	0.9	0.6	0.3	0.3	0.0
82.5°	4.6	6.6	3.2	2.6	2.0	1.4	0.9	0.6	0.3	0.3	0.3
85°	3.8	3.5	2.6	2.3	1.7	1.2	0.9	0.3	0.0	0.0	0.0
87.5°	2.9	2.3	2.3	2.3	1.7	1.2	0.9	0.3	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)