

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: P452682

Luminaire Tested: **GALN-SA3C-827-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452682
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-SA3C-827-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 1050mA 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: 11161 lumens
Efficiency: N/A
Efficacy: 69.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

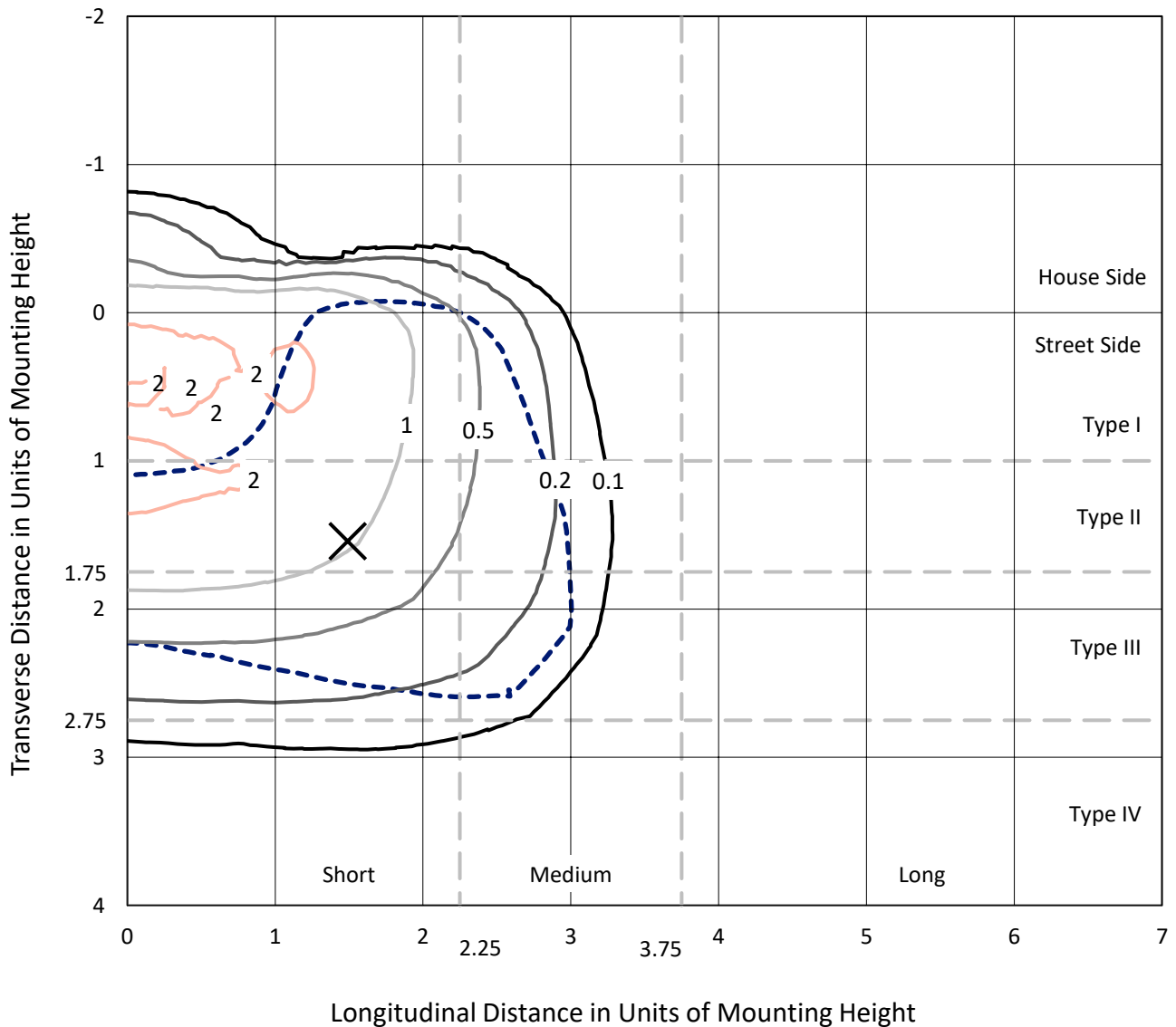
Input Watts (W): 160
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P452682
 CATALOG NUMBER: GALN-SA3C-827-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

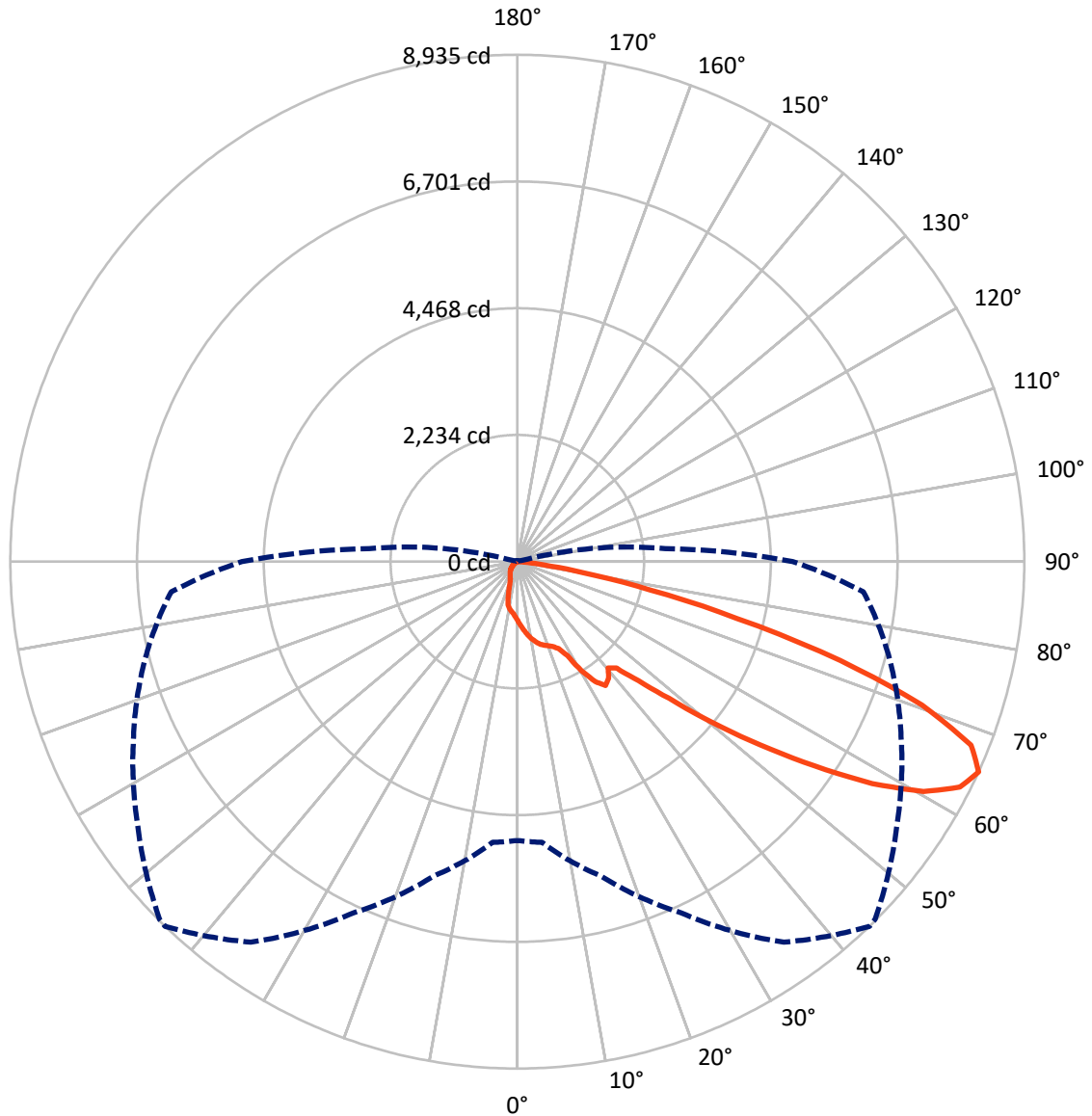
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type III - Short - N/A

REPORT NUMBER: P452682
CATALOG NUMBER: GALN-SA3C-827-U-T4W-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P452682

CATALOG NUMBER: GALN-SA3C-827-U-T4W-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1028.3	0.0	1028.3
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	10132.7	0.0	10132.7
	% Fixture	90.8	0.0	90.8
Total	Lumens	11161.0	0.0	11161.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.3	0.9
10°-20°	310.9	2.8
20°-30°	527.3	4.7
30°-40°	876.6	7.9
40°-50°	1530.6	13.7
50°-60°	2990.3	26.8
60°-70°	3469.5	31.1
70°-80°	1263.4	11.3
80°-90°	89.0	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°	11161.0	100.0
0°-180°	11161.0	100.0



REPORT NUMBER: P452682

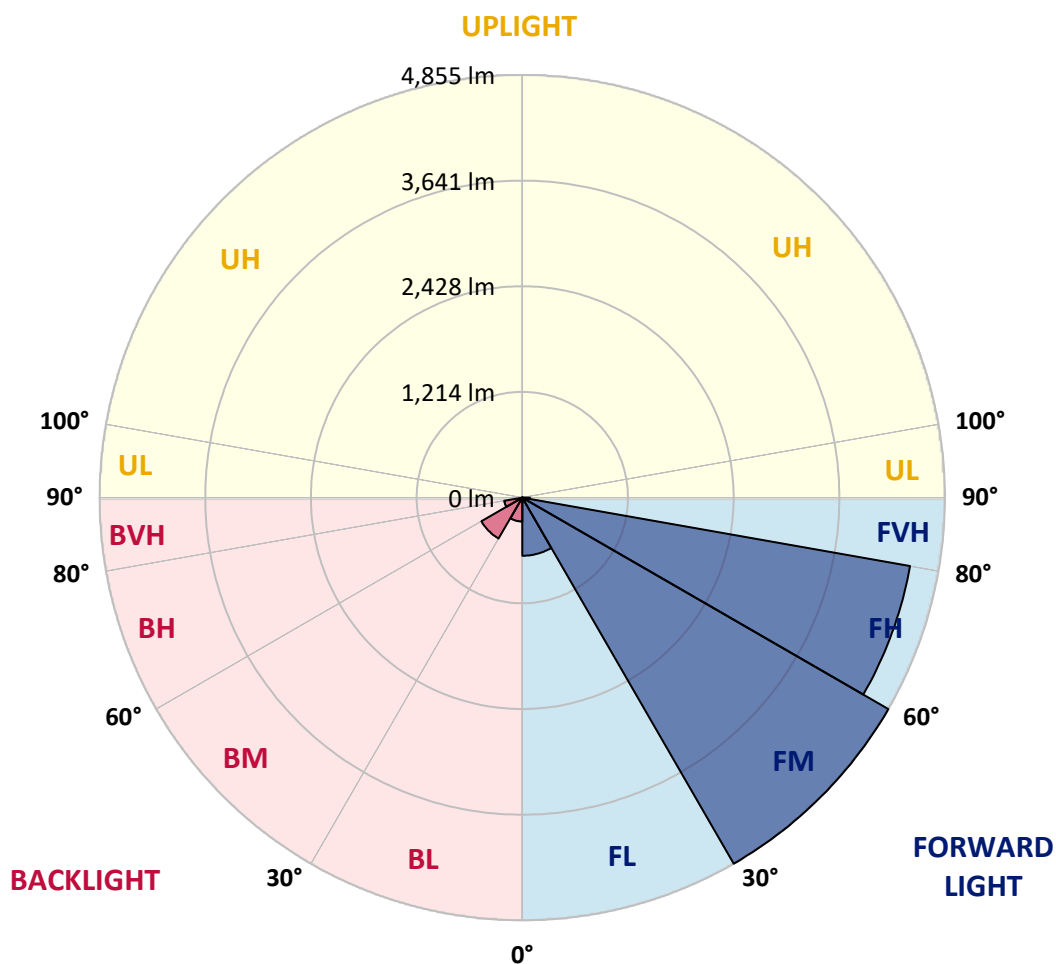
CATALOG NUMBER: GALN-SA3C-827-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	667.5	6.0			
FM	(30°-60°)	4855.1	43.5			
FH	(60°-80°)	4522.3	40.5			G2/5000
FVH	(80°-90°)	87.8	0.8			G1/100
BL	(0°-30°)	274.0	2.5	B1/500		
BM	(30°-60°)	542.5	4.9	B1/1000		
BH	(60°-80°)	210.6	1.9	B1/500		G1/500
BVH	(80°-90°)	1.2	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: P452682

CATALOG NUMBER: GALN-SA3C-827-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1038.8	1038.8	1038.8	1038.8	1038.8	1038.8	1038.8	1038.8	1038.8	1038.8	1038.8
2.5°	1169.2	1164.1	1161.6	1147.9	1137.7	1124.9	1124.9	1108.7	1089.9	1069.5	1050.7
5°	1299.7	1291.2	1280.1	1268.2	1244.3	1210.2	1210.2	1176.1	1136.8	1101.9	1063.5
7.5°	1425.1	1417.4	1398.7	1375.6	1336.4	1300.6	1298.0	1248.6	1201.6	1148.8	1094.2
10°	1535.1	1529.1	1512.9	1468.6	1427.7	1380.7	1379.9	1324.5	1269.9	1205.1	1137.7
12.5°	1611.9	1612.7	1591.4	1548.8	1495.9	1451.5	1448.1	1393.5	1336.4	1266.5	1183.7
15°	1666.4	1666.4	1644.3	1596.5	1548.8	1509.5	1506.1	1458.4	1399.5	1323.6	1234.1
17.5°	1681.8	1686.9	1663.0	1620.4	1582.0	1547.9	1547.0	1507.0	1460.1	1386.7	1285.2
20°	1675.8	1680.9	1662.2	1628.9	1602.5	1582.9	1580.3	1564.1	1520.6	1451.5	1339.8
22.5°	1663.0	1668.2	1654.5	1634.9	1622.1	1628.1	1623.8	1637.4	1614.4	1530.8	1404.6
25°	1665.6	1670.7	1660.5	1649.4	1660.5	1697.1	1708.2	1767.1	1746.6	1631.5	1474.6
27.5°	1745.8	1756.0	1741.5	1746.6	1785.8	1871.1	1892.4	1993.9	1903.5	1759.4	1583.7
30°	1924.0	1917.2	1889.9	1914.6	2051.1	2231.9	2225.9	2209.7	2068.1	1906.9	1713.4
32.5°	2086.0	2080.1	2078.4	2185.0	2432.3	2520.1	2515.9	2358.9	2215.7	2075.8	1841.3
35°	2151.7	2128.7	2123.6	2382.0	2795.6	2679.6	2653.2	2420.4	2394.8	2260.0	1971.8
37.5°	2349.6	2333.4	2254.0	2414.4	2650.6	2612.2	2591.8	2526.1	2585.8	2422.9	2119.3
40°	2757.2	2712.0	2640.4	2483.5	2445.1	2461.3	2481.8	2661.7	2811.8	2645.5	2316.3
42.5°	3263.8	3253.6	3120.5	2828.0	2540.6	2562.8	2589.2	2944.8	3136.7	2980.7	2637.8
45°	3871.9	3886.4	3694.5	3349.1	2972.1	2990.9	3029.3	3362.7	3576.8	3501.8	3143.6
47.5°	4424.5	4413.4	4348.6	3989.6	3641.6	3599.8	3662.1	3899.2	4185.7	4197.7	3771.2
50°	4980.6	5039.4	4943.0	4802.3	4543.9	4456.1	4433.1	4549.0	4985.7	4928.5	4525.2
52.5°	5779.7	5810.4	5629.6	5593.8	5652.6	5367.8	5344.7	5372.9	5763.5	5567.3	5089.7
55°	6282.0	6264.1	6196.7	6476.4	6709.3	6353.6	6324.6	6211.2	6409.1	6018.5	5633.0
57.5°	6440.6	6466.2	6623.1	7128.9	7679.8	7377.9	7325.0	7002.6	6874.7	6438.9	6132.8
60°	6369.8	6416.8	6755.3	7507.5	8271.7	8226.5	8181.3	7639.7	7209.0	6790.3	6483.3
62.5°	5865.8	5931.5	6473.0	7440.2	8472.1	8754.4	8698.1	8037.1	7431.6	6960.9	6544.7
65°	4915.8	4964.4	5742.2	6828.7	8187.2	8935.2	8914.7	8161.7	7466.6	6804.8	6124.2
67.5°	3504.3	3669.8	4390.4	5754.9	7344.6	8626.5	8661.4	8012.4	7138.3	6130.2	5071.8
70°	2202.9	2315.5	2832.3	4120.1	5888.0	7568.1	7683.2	7329.3	6195.0	4778.4	3395.1
72.5°	1050.7	1134.3	1502.7	2608.0	4155.9	5954.5	6045.8	6016.8	4790.4	3010.5	1751.7
75°	468.2	499.8	717.2	1331.3	2683.0	4002.4	4238.6	4277.8	2993.5	1472.9	681.4
77.5°	238.8	239.6	336.0	644.7	1339.8	2387.9	2434.9	2572.2	1623.0	649.0	237.1
80°	127.1	135.6	178.2	304.5	695.1	1176.1	1170.1	1286.1	719.8	318.1	79.3
82.5°	57.1	63.1	100.6	159.5	339.4	446.0	481.0	526.2	308.7	203.0	35.0
85°	17.1	20.5	49.5	80.2	122.8	128.8	144.1	185.9	174.8	144.1	17.9
87.5°	2.6	2.6	20.5	22.2	17.9	23.0	23.9	26.4	56.3	52.9	9.4
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: P452682
 CATALOG NUMBER: GALN-SA3C-827-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1038.8	1038.8	1038.8	1038.8	1038.8	1038.8	1038.8	1038.8	1038.8	1038.8	1038.8
2.5°	1040.5	1034.5	1013.2	995.3	979.9	970.5	959.4	952.6	949.2	946.6	947.5
5°	1044.7	1030.2	993.6	964.6	942.4	918.5	902.3	892.9	888.7	881.8	881.8
7.5°	1068.6	1045.6	994.4	950.1	911.7	879.3	848.6	837.5	829.8	828.1	826.4
10°	1102.7	1073.7	1003.8	942.4	887.8	843.5	800.0	761.6	731.7	713.8	711.3
12.5°	1145.4	1103.6	1018.3	937.3	867.3	788.9	673.7	596.1	544.1	527.9	530.5
15°	1184.6	1139.4	1032.8	933.0	829.8	654.1	523.6	434.9	408.5	406.0	406.8
17.5°	1231.5	1177.8	1049.8	927.0	726.6	499.8	388.9	365.0	370.1	378.7	377.8
20°	1280.1	1218.7	1070.3	891.2	579.9	376.1	343.7	346.3	353.9	361.6	363.3
22.5°	1332.1	1265.6	1094.2	805.1	442.6	327.5	325.8	329.2	336.9	345.4	347.1
25°	1403.8	1324.5	1112.1	692.5	335.2	302.8	306.2	312.1	319.0	328.3	330.0
27.5°	1495.9	1403.8	1121.5	545.8	290.0	280.6	281.4	290.0	298.5	307.0	307.0
30°	1615.3	1498.4	1102.7	412.8	267.8	259.3	255.9	261.0	272.1	280.6	281.4
32.5°	1721.9	1588.0	1053.3	315.5	251.6	239.6	231.1	232.0	236.2	241.4	242.2
35°	1828.5	1675.0	968.8	265.2	234.5	220.9	208.1	201.3	197.9	195.3	197.9
37.5°	1964.9	1783.3	856.2	241.4	220.0	203.0	185.1	170.6	158.6	151.0	152.7
40°	2140.6	1933.4	723.2	226.0	206.4	185.9	162.0	143.3	122.8	116.0	112.6
42.5°	2430.6	2161.1	583.3	213.2	192.7	168.0	138.2	112.6	93.8	87.0	88.7
45°	2888.6	2448.5	449.4	199.6	179.1	148.4	116.0	88.7	73.3	69.9	71.6
47.5°	3495.8	2820.3	346.3	184.2	162.0	127.1	91.3	69.9	60.6	59.7	58.8
50°	4067.2	3166.6	289.1	167.2	141.6	105.8	75.0	58.8	52.9	52.0	52.0
52.5°	4584.0	3414.8	235.4	147.5	119.4	87.0	63.1	52.0	46.9	44.3	44.3
55°	5043.7	3576.8	191.0	123.7	93.8	69.1	54.6	46.9	40.9	37.5	36.7
57.5°	5390.8	3596.4	143.3	98.9	69.9	53.7	46.9	40.9	34.1	29.8	28.1
60°	5539.2	3426.7	105.8	75.0	52.0	42.6	37.5	33.3	25.6	21.3	20.5
62.5°	5389.9	3096.7	78.5	57.1	40.1	31.6	26.4	24.7	17.9	12.8	11.9
65°	4855.2	2619.9	62.3	43.5	29.8	23.0	17.1	16.2	11.1	6.0	5.1
67.5°	3889.8	2051.9	49.5	32.4	21.3	15.4	11.1	10.2	6.0	1.7	1.7
70°	2529.5	1311.7	40.1	23.9	13.6	10.2	6.8	5.1	3.4	0.9	0.0
72.5°	1251.1	613.2	32.4	18.8	9.4	5.1	2.6	1.7	2.6	0.0	0.0
75°	485.3	218.3	23.9	12.8	5.1	2.6	1.7	0.0	0.9	0.0	0.0
77.5°	161.2	72.5	14.5	6.8	3.4	1.7	0.0	0.0	0.0	0.0	0.0
80°	59.7	28.1	7.7	4.3	1.7	0.9	0.0	0.0	0.0	0.0	0.0
82.5°	23.9	11.1	5.1	3.4	1.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.9	6.8	3.4	2.6	1.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.5	5.1	3.4	2.6	1.7	0.9	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)