

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: P452446

Luminaire Tested: **GALN-SA3B-827-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452446
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3B-827-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9777 lumens
Efficiency: N/A
Efficacy: 80.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

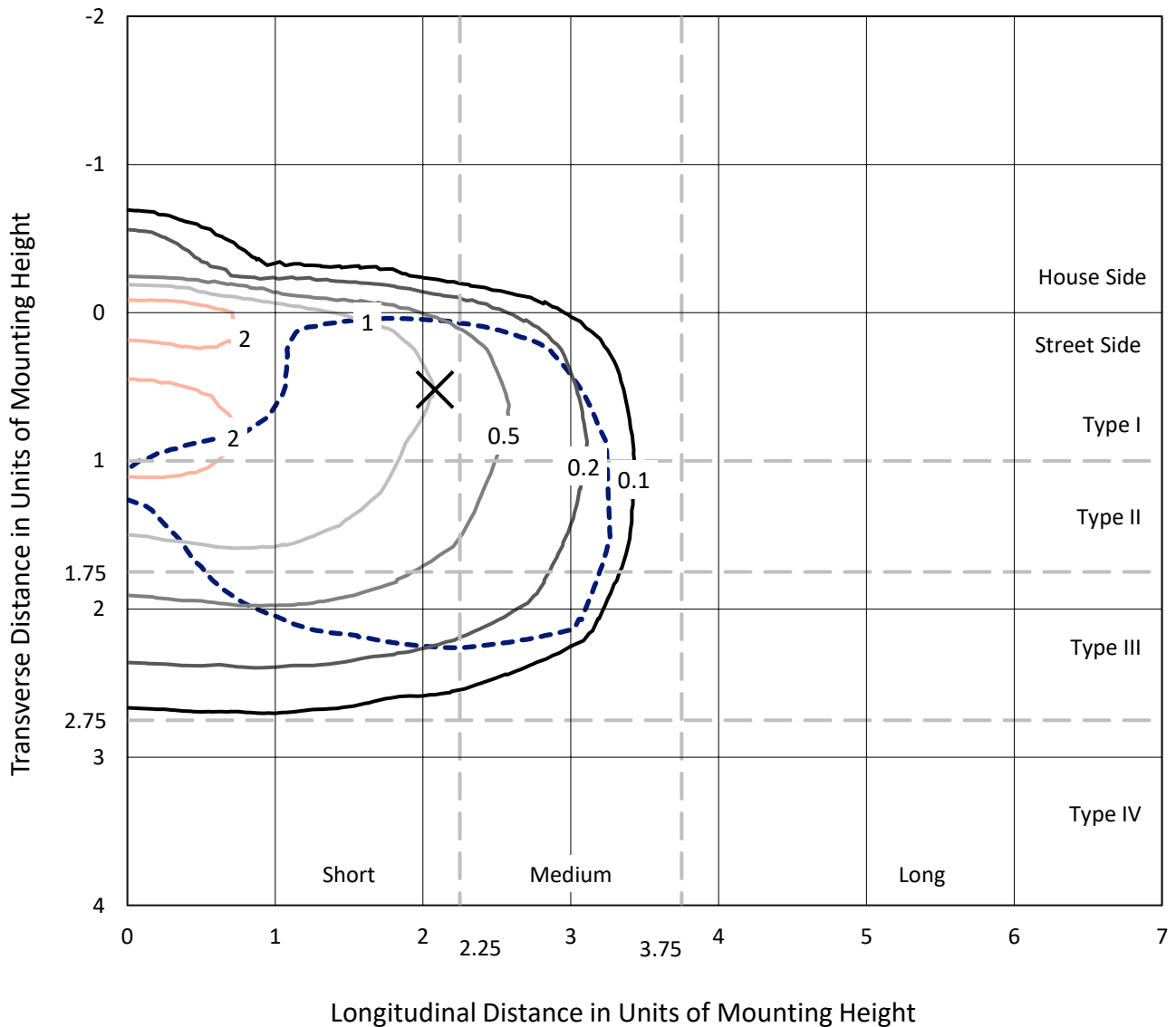
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

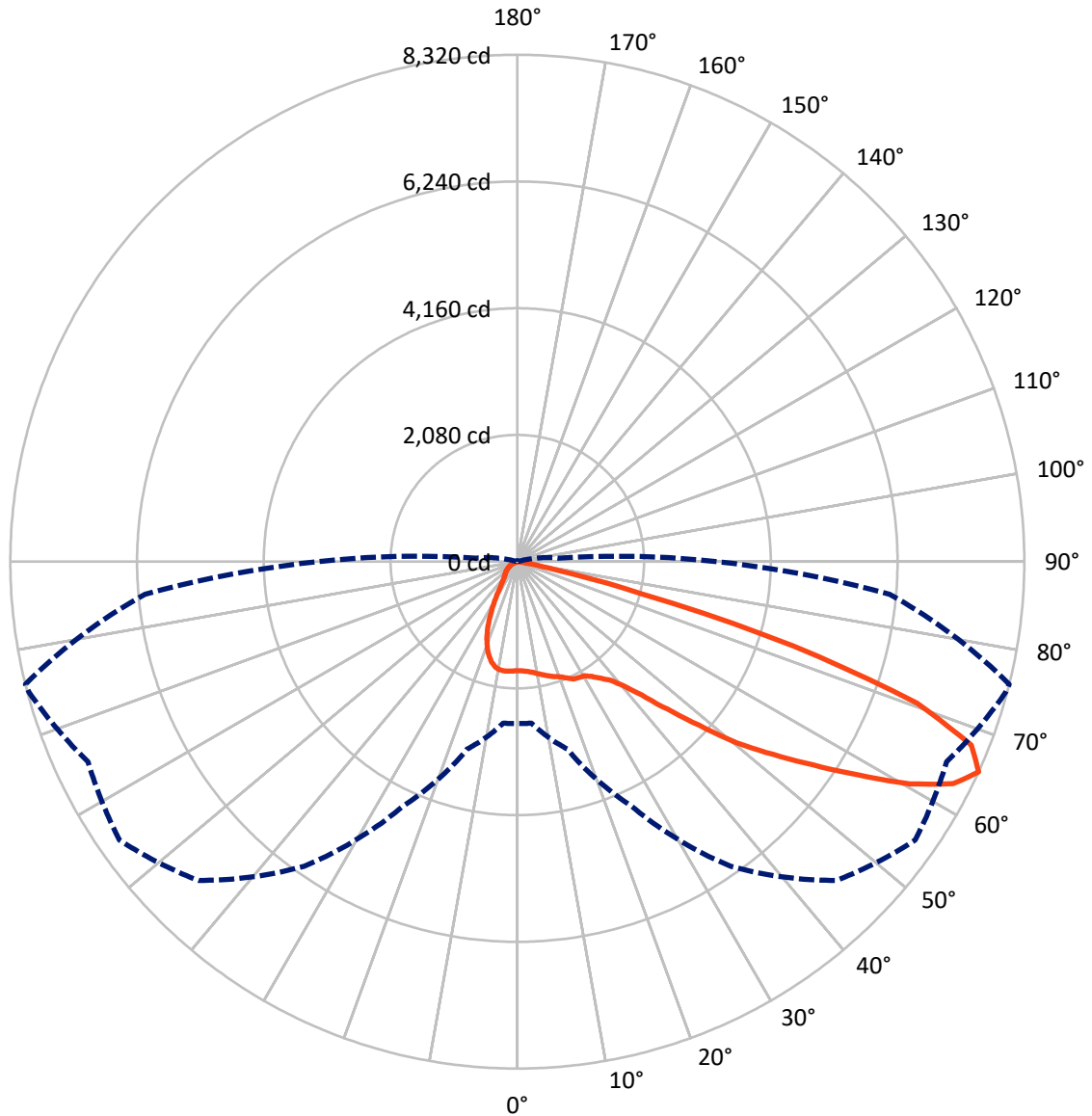
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	706.1	0.0	706.1
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	9070.9	0.0	9070.9
	% Fixture	92.8	0.0	92.8
Total	Lumens	9777.0	0.0	9777.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.3	1.5
10°-20°	328.0	3.4
20°-30°	528.6	5.4
30°-40°	919.1	9.4
40°-50°	1518.8	15.5
50°-60°	2346.3	24.0
60°-70°	2865.1	29.3
70°-80°	1087.4	11.1
80°-90°	36.3	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°	9777.0	100.0
0°-180°	9777.0	100.0



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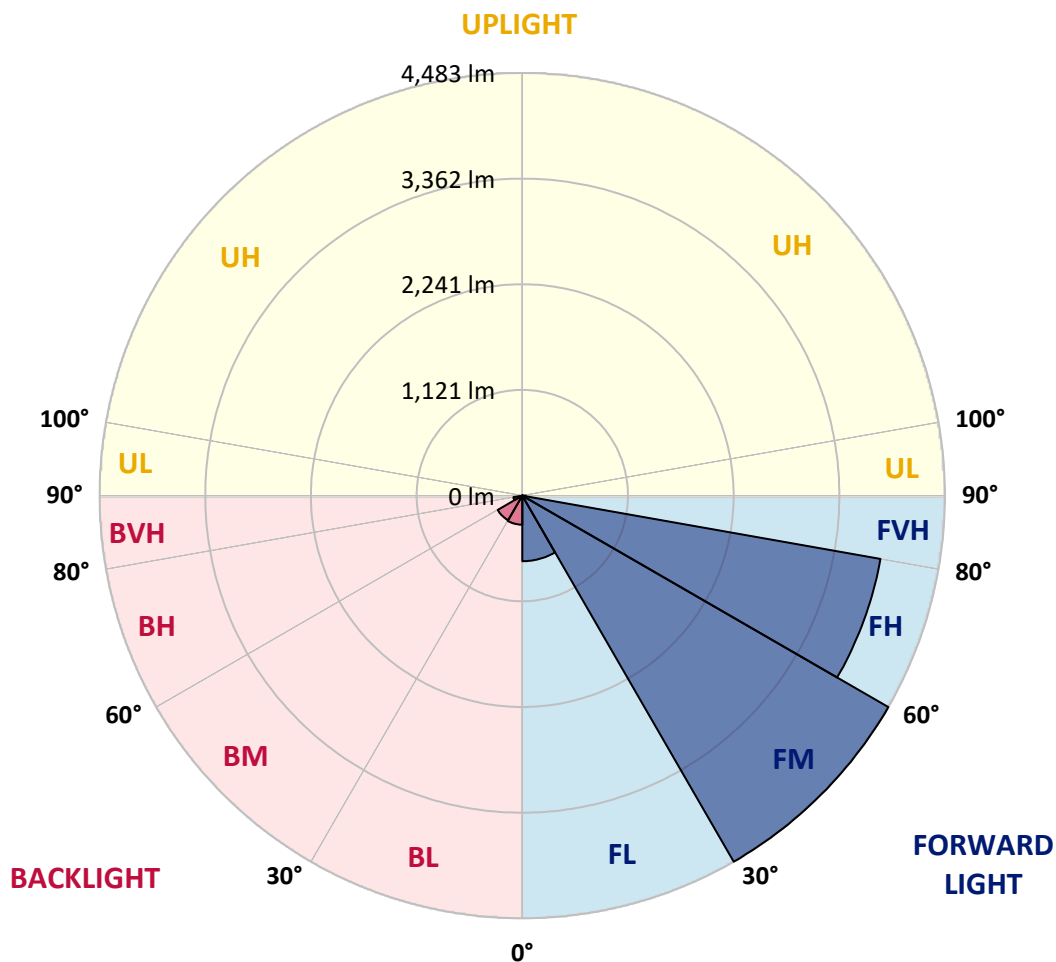
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	695.5	7.1			
FM (30°-60°)	4482.9	45.9			
FH (60°-80°)	3856.7	39.4			G2/5000
FVH (80°-90°)	35.8	0.4			G1/100
BL (0°-30°)	308.5	3.2	B1/500		
BM (30°-60°)	301.3	3.1	B1/1000		
BH (60°-80°)	95.8	1.0	B0/110		G0/110
BVH (80°-90°)	0.5	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°	65°	75°	76°	85°
0°	1788.5	1788.5	1788.5	1788.5	1788.5	1788.5	1788.5	1788.5	1788.5	1788.5	1788.5
2.5°	1709.1	1709.8	1714.0	1724.3	1740.2	1753.3	1764.4	1782.3	1794.7	1796.1	1800.3
5°	1591.1	1582.8	1591.1	1618.0	1642.2	1678.8	1723.6	1768.5	1808.5	1811.3	1830.6
7.5°	1458.6	1465.5	1478.6	1506.2	1551.8	1607.7	1672.6	1752.6	1828.6	1835.5	1873.4
10°	1324.0	1339.2	1360.5	1402.7	1466.2	1538.6	1627.0	1741.6	1860.3	1870.0	1935.6
12.5°	1199.7	1206.6	1232.8	1289.5	1368.1	1470.3	1592.5	1735.4	1895.5	1907.3	2001.8
15°	1104.5	1113.4	1136.2	1187.3	1275.0	1406.1	1564.2	1733.3	1930.0	1946.6	2068.1
17.5°	1086.5	1092.0	1101.7	1136.2	1212.8	1355.0	1538.6	1732.6	1963.2	1983.2	2129.5
20°	1160.4	1155.5	1145.9	1142.4	1184.5	1315.7	1520.0	1738.1	1994.9	2017.7	2194.4
22.5°	1345.4	1351.6	1295.0	1228.0	1214.2	1309.5	1517.2	1764.4	2045.3	2072.2	2266.9
25°	1738.1	1690.5	1602.1	1442.0	1321.2	1347.4	1548.3	1826.5	2104.0	2133.7	2332.5
27.5°	2172.3	2157.8	2020.5	1756.8	1531.7	1427.5	1603.5	1874.1	2123.3	2153.7	2369.7
30°	2598.9	2616.2	2458.8	2167.5	1837.5	1575.9	1655.3	1892.1	2140.6	2172.3	2417.4
32.5°	2994.5	3015.2	2877.1	2588.6	2197.9	1832.7	1744.3	1961.8	2213.0	2245.5	2496.8
35°	3305.8	3308.5	3204.3	2974.4	2591.3	2144.7	1936.9	2084.0	2311.1	2349.0	2581.0
37.5°	3591.5	3587.4	3465.2	3267.1	2919.2	2454.6	2179.2	2224.8	2422.9	2462.2	2702.5
40°	3803.5	3806.2	3766.9	3580.5	3225.0	2741.1	2371.1	2356.6	2610.7	2672.1	2879.2
42.5°	3945.0	3970.5	3989.8	3895.3	3609.5	3093.9	2665.9	2639.0	2936.5	2987.5	3129.1
45°	4059.6	4105.1	4201.8	4196.9	3978.8	3526.7	3070.4	3015.2	3398.3	3452.8	3447.3
47.5°	4143.1	4189.3	4349.5	4446.1	4326.0	3946.4	3579.1	3531.5	3949.8	4009.2	3798.6
50°	4185.9	4241.1	4445.4	4632.5	4597.3	4350.9	4159.0	4161.7	4615.9	4673.2	4205.9
52.5°	4085.8	4157.6	4496.5	4833.4	4901.7	4738.1	4702.2	4793.3	5208.9	5257.9	4573.8
55°	3766.2	3856.6	4426.8	5004.6	5254.4	5195.1	5319.3	5458.1	5857.1	5888.8	4951.4
57.5°	3563.9	3659.9	4221.1	5150.2	5678.3	5769.4	5966.1	6067.6	6525.9	6606.7	5384.9
60°	3393.4	3468.7	4052.0	5181.3	6109.0	6472.1	6663.3	6768.2	7351.5	7404.0	5861.9
62.5°	3109.7	3196.0	3766.2	4964.5	6325.8	7034.7	7430.9	7384.0	7990.0	8026.6	6154.6
65°	2653.5	2661.0	3186.4	4419.9	6102.1	7399.8	7970.0	7773.3	8295.1	8320.0	6131.8
67.5°	1980.4	2053.6	2451.2	3474.2	5154.3	7087.8	8144.7	7783.6	8102.6	8033.5	5645.1
70°	1275.6	1331.6	1661.5	2409.1	3716.5	5915.0	7565.5	7250.1	7111.3	6958.1	4620.8
72.5°	588.8	660.6	987.1	1376.4	2204.1	4213.5	6141.5	5890.2	5118.5	4740.2	2937.2
75°	256.8	274.7	487.3	726.2	1033.4	2228.2	4049.2	3656.4	2311.8	2111.6	1175.6
77.5°	156.7	168.4	255.4	389.3	405.9	849.0	2181.3	1595.2	714.4	630.2	318.9
80°	106.3	119.4	185.7	203.6	138.7	236.8	818.7	425.9	144.3	138.1	68.3
82.5°	51.8	65.6	137.4	113.9	60.1	75.9	238.1	91.1	42.1	39.3	24.2
85°	7.6	13.1	77.3	74.6	26.9	17.9	42.1	22.8	14.5	13.8	11.0
87.5°	0.0	0.0	26.2	11.7	2.8	2.8	4.8	4.8	5.5	4.8	5.5
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°	1788.5	1788.5	1788.5	1788.5	1788.5	1788.5	1788.5	1788.5	1788.5	1788.5	1788.5
2.5°	1802.3	1805.8	1792.7	1774.0	1754.0	1734.0	1705.7	1680.2	1665.0	1673.9	1651.8
5°	1834.8	1832.0	1797.5	1740.9	1665.7	1575.2	1485.5	1408.9	1384.0	1346.7	1342.6
7.5°	1879.6	1872.0	1798.9	1669.1	1499.3	1329.5	1163.8	1054.1	991.2	938.1	939.5
10°	1942.5	1920.4	1783.0	1542.8	1263.2	1007.1	795.9	650.9	588.1	568.1	552.2
12.5°	2007.3	1964.5	1738.8	1372.3	983.7	688.2	483.9	395.5	356.9	344.5	343.1
15°	2065.3	1997.7	1661.5	1167.3	715.1	439.7	330.0	301.0	296.1	296.8	296.1
17.5°	2122.6	2023.9	1554.5	949.8	486.0	315.5	283.7	276.8	278.9	281.6	280.9
20°	2170.3	2029.4	1417.8	724.8	343.8	276.8	266.4	265.1	267.1	269.2	269.2
22.5°	2222.0	2033.6	1255.6	501.8	280.9	257.5	252.0	252.0	254.7	257.5	258.2
25°	2260.7	2010.8	1061.7	360.3	247.8	238.8	236.1	236.8	239.5	240.9	240.2
27.5°	2266.9	1946.6	856.0	276.1	225.0	216.1	213.3	216.1	212.6	214.7	213.3
30°	2272.4	1865.1	647.5	232.6	204.3	190.5	186.4	182.2	179.5	176.0	175.3
32.5°	2289.7	1769.2	472.8	209.2	185.0	169.8	160.1	148.4	139.4	136.7	136.0
35°	2297.3	1653.9	347.2	190.5	167.7	151.2	133.9	117.3	104.2	99.4	102.9
37.5°	2326.3	1542.1	269.2	176.7	152.6	131.8	109.8	89.0	76.6	73.9	75.2
40°	2385.6	1420.6	225.7	165.0	139.4	113.9	87.0	67.0	58.7	55.9	55.2
42.5°	2480.9	1299.8	200.9	153.9	126.3	95.9	68.3	52.5	45.6	43.5	43.5
45°	2596.8	1183.8	183.6	142.2	112.5	77.3	53.8	42.1	38.0	36.6	36.6
47.5°	2749.4	1082.4	169.1	130.5	97.3	61.4	43.5	36.6	33.8	34.5	35.2
50°	2904.0	1007.1	153.2	117.3	80.1	50.4	37.3	32.4	31.8	32.4	32.4
52.5°	3020.7	962.9	131.8	99.4	62.8	42.1	33.1	30.4	29.7	28.3	28.3
55°	3178.1	953.3	104.9	80.8	49.7	35.2	29.7	27.6	25.5	24.2	23.5
57.5°	3380.3	964.3	80.8	62.8	38.7	29.0	26.2	22.8	20.0	17.3	17.3
60°	3506.0	939.5	62.8	48.3	28.3	23.5	20.0	16.6	13.1	11.0	10.4
62.5°	3465.9	834.6	49.7	35.9	20.0	17.3	13.1	11.0	7.6	5.5	4.8
65°	3259.5	673.7	40.0	24.9	14.5	10.4	6.9	6.9	3.5	0.7	0.0
67.5°	2852.9	499.1	31.8	16.6	8.3	4.8	3.5	2.1	0.0	0.0	0.0
70°	2322.1	360.3	24.9	10.4	4.8	3.5	1.4	0.7	0.0	0.0	0.0
72.5°	1474.4	206.4	19.3	6.2	3.5	1.4	0.0	0.0	0.0	0.0	0.0
75°	570.2	80.8	13.1	4.1	1.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	161.5	38.0	7.6	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	42.1	16.6	4.1	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	20.0	6.9	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.7	2.8	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.5	0.7	0.0	0.0	0.0	0.0	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)