

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: P451899

Luminaire Tested: **GALN-SA2D-740-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451899
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-SA2D-740-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 1200mA 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: 11254 lumens
Efficiency: N/A
Efficacy: 90.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

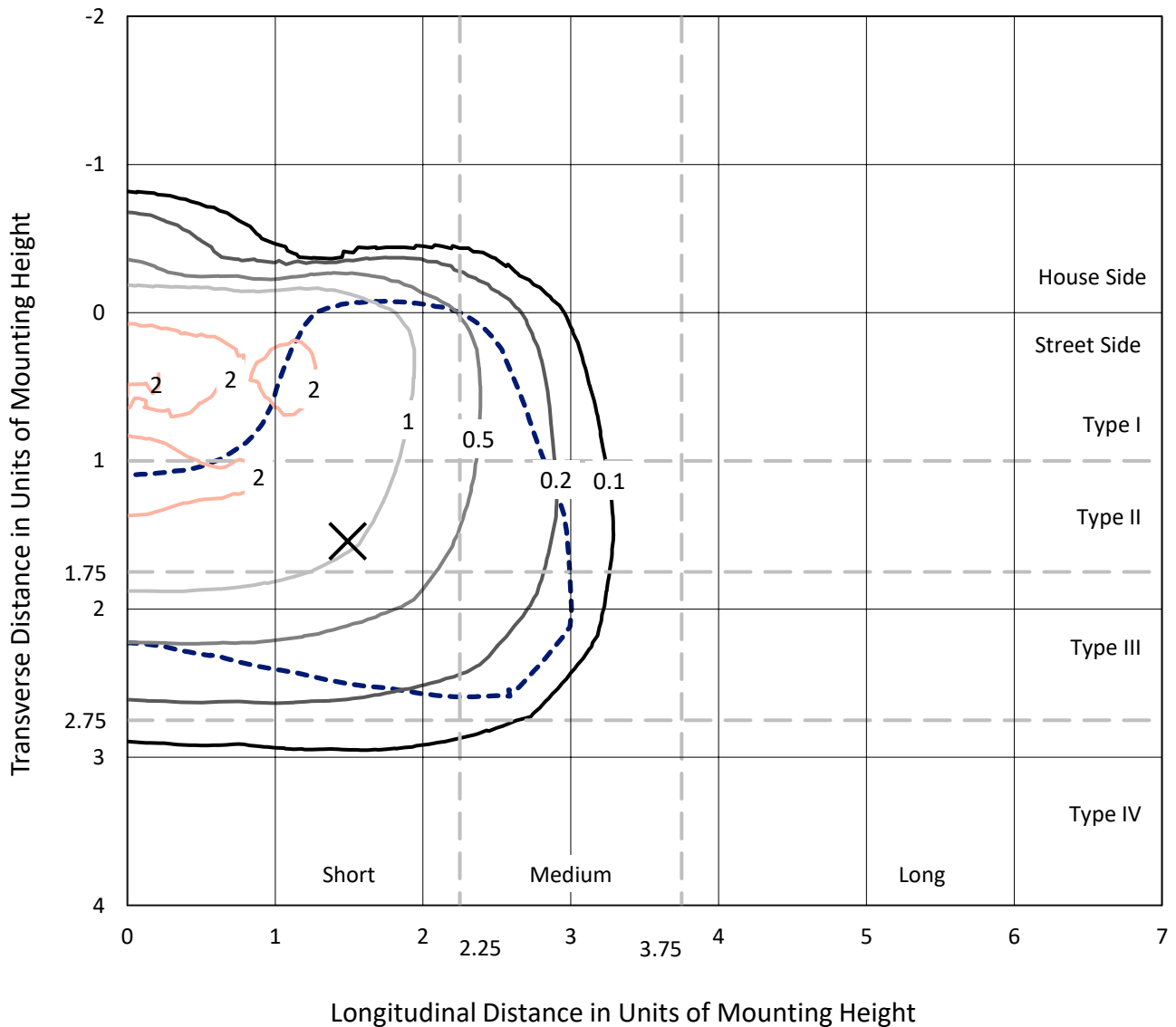
Input Watts (W): 125
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

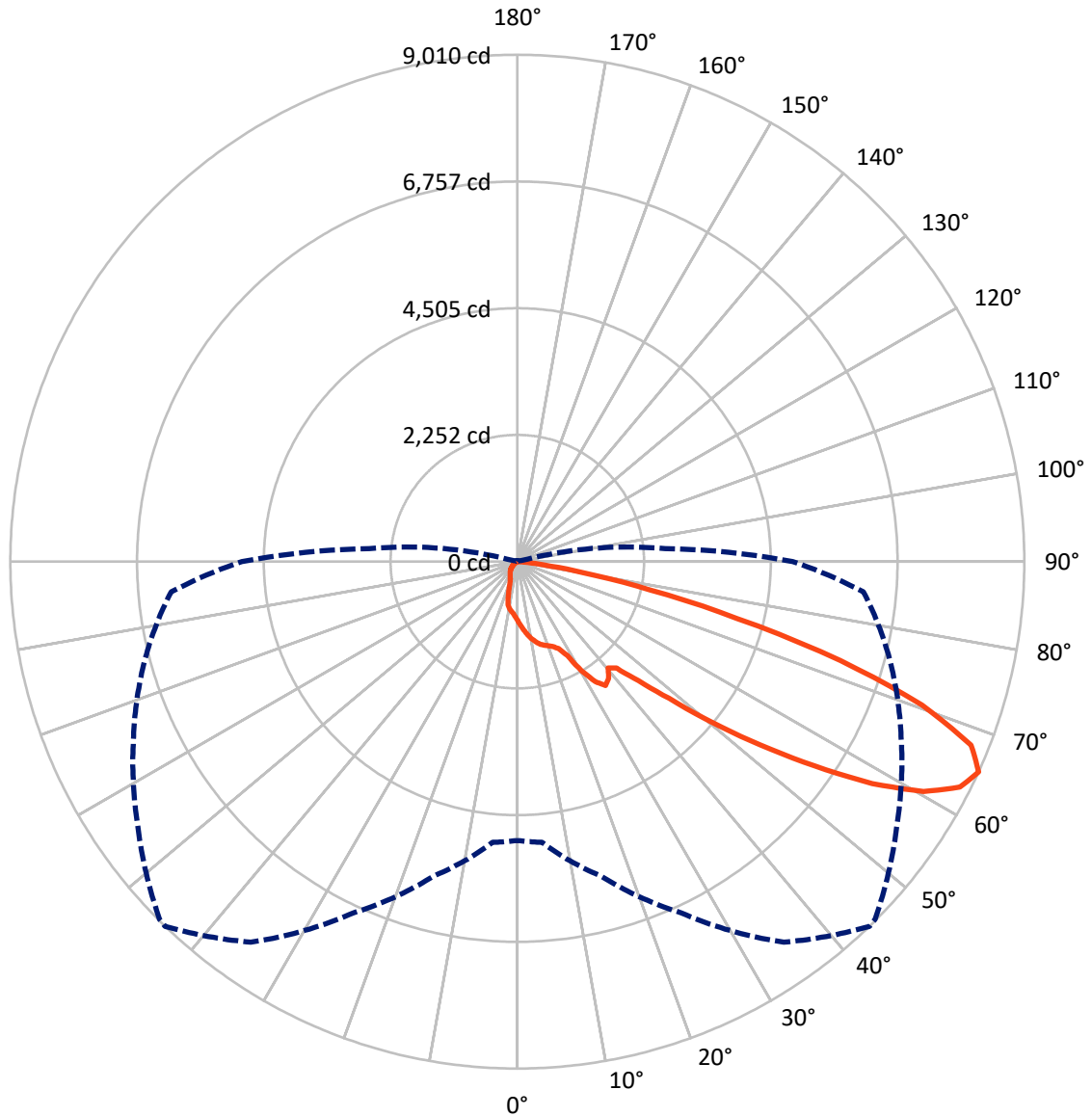
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1036.9	0.0	1036.9
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	10217.1	0.0	10217.1
	% Fixture	90.8	0.0	90.8
Total	Lumens	11254.0	0.0	11254.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.2	0.9
10°-20°	313.5	2.8
20°-30°	531.6	4.7
30°-40°	883.9	7.9
40°-50°	1543.4	13.7
50°-60°	3015.2	26.8
60°-70°	3498.4	31.1
70°-80°	1273.9	11.3
80°-90°	89.8	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°	11254.0	100.0
0°-180°	11254.0	100.0



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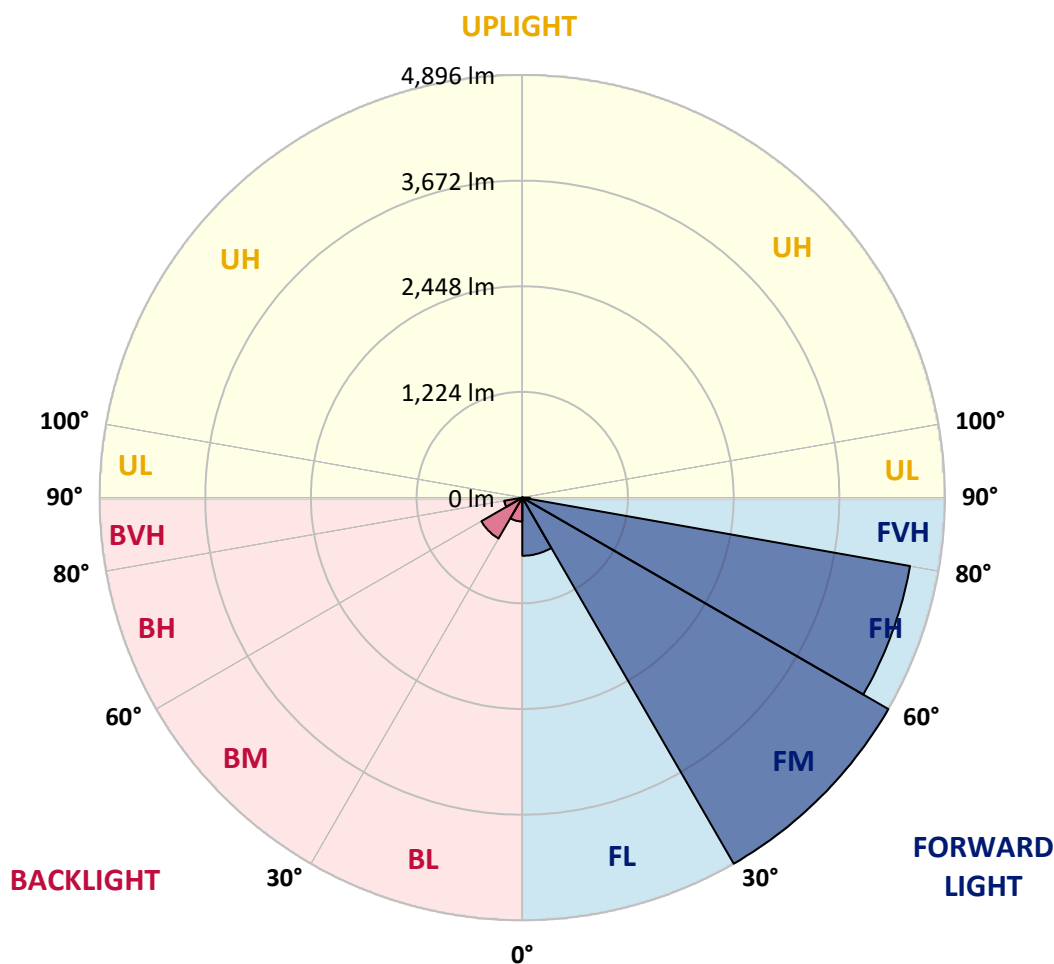
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	673.1	6.0			
FM (30°-60°)	4895.5	43.5			
FH (60°-80°)	4560.0	40.5			G2/5000
FVH (80°-90°)	88.5	0.8			G1/100
BL (0°-30°)	276.3	2.5	B1/500		
BM (30°-60°)	547.1	4.9	B1/1000		
BH (60°-80°)	212.3	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1047.4	1047.4	1047.4	1047.4	1047.4	1047.4	1047.4	1047.4	1047.4	1047.4	1047.4
2.5°	1179.0	1173.8	1171.2	1157.5	1147.2	1134.3	1134.3	1117.9	1099.0	1078.4	1059.5
5°	1310.6	1302.0	1290.8	1278.7	1254.7	1220.3	1220.3	1185.9	1146.3	1111.0	1072.4
7.5°	1437.0	1429.2	1410.3	1387.1	1347.5	1311.4	1308.8	1259.0	1211.7	1158.3	1103.3
10°	1547.9	1541.9	1525.5	1480.8	1439.5	1392.2	1391.4	1335.5	1280.5	1215.1	1147.2
12.5°	1625.3	1626.2	1604.7	1561.7	1508.3	1463.6	1460.2	1405.1	1347.5	1277.0	1193.6
15°	1680.3	1680.3	1658.0	1609.8	1561.7	1522.1	1518.7	1470.5	1411.2	1334.6	1244.3
17.5°	1695.8	1701.0	1676.9	1633.9	1595.2	1560.8	1559.9	1519.5	1472.2	1398.3	1295.9
20°	1689.8	1694.9	1676.0	1642.5	1615.8	1596.1	1593.5	1577.1	1533.3	1463.6	1351.0
22.5°	1676.9	1682.1	1668.3	1648.5	1635.6	1641.6	1637.3	1651.1	1627.9	1543.6	1416.3
25°	1679.5	1684.6	1674.3	1663.1	1674.3	1711.3	1722.5	1781.8	1761.2	1645.1	1486.8
27.5°	1760.3	1770.6	1756.0	1761.2	1800.7	1886.7	1908.2	2010.5	1919.4	1774.1	1596.9
30°	1940.0	1933.2	1905.6	1930.6	2068.2	2250.5	2244.5	2228.1	2085.4	1922.8	1727.6
32.5°	2103.4	2097.4	2095.7	2203.2	2452.6	2541.1	2536.8	2378.6	2234.1	2093.1	1856.6
35°	2169.6	2146.4	2141.3	2401.8	2818.9	2701.9	2675.3	2440.5	2414.7	2278.9	1988.2
37.5°	2369.1	2352.8	2272.8	2434.5	2672.7	2634.0	2613.4	2547.2	2607.4	2443.1	2137.0
40°	2780.2	2734.6	2662.4	2504.2	2465.5	2481.8	2502.4	2683.9	2835.2	2667.5	2335.6
42.5°	3291.0	3280.7	3146.5	2851.6	2561.8	2584.1	2610.8	2969.4	3162.9	3005.5	2659.8
45°	3904.1	3918.8	3725.3	3377.0	2996.9	3015.8	3054.5	3390.8	3606.6	3530.9	3169.8
47.5°	4461.4	4450.2	4384.9	4022.8	3672.0	3629.8	3692.6	3931.7	4220.6	4232.6	3802.7
50°	5022.1	5081.4	4984.2	4842.3	4581.8	4493.2	4470.0	4586.9	5027.2	4969.6	4562.9
52.5°	5827.8	5858.8	5676.5	5640.4	5699.7	5412.5	5389.3	5417.6	5811.5	5613.7	5132.1
55°	6334.3	6316.3	6248.4	6530.4	6765.2	6406.6	6377.3	6263.0	6462.5	6068.6	5679.9
57.5°	6494.3	6520.1	6678.3	7188.3	7743.8	7439.4	7386.1	7061.0	6932.0	6492.6	6183.9
60°	6422.9	6470.2	6811.6	7570.1	8340.6	8295.0	8249.4	7703.4	7269.1	6846.9	6537.3
62.5°	5914.7	5980.9	6527.0	7502.2	8542.7	8827.3	8770.6	8104.1	7493.6	7018.9	6599.2
65°	4956.7	5005.7	5790.0	6885.6	8255.5	9009.6	8989.0	8229.7	7528.8	6861.5	6175.3
67.5°	3533.5	3700.3	4427.0	5802.9	7405.8	8698.3	8733.6	8079.2	7197.7	6181.3	5114.1
70°	2221.2	2334.7	2855.9	4154.4	5937.1	7631.1	7747.2	7390.4	6246.6	4818.3	3423.4
72.5°	1059.5	1143.7	1515.2	2629.7	4190.5	6004.1	6096.1	6066.9	4830.3	3035.6	1766.3
75°	472.1	503.9	723.2	1342.4	2705.4	4035.7	4273.9	4313.5	3018.4	1485.1	687.1
77.5°	240.8	241.6	338.8	650.1	1351.0	2407.8	2455.1	2593.6	1636.5	654.4	239.1
80°	128.1	136.7	179.7	307.0	700.9	1185.9	1179.8	1296.8	725.8	320.8	80.0
82.5°	57.6	63.6	101.5	160.8	342.3	449.8	485.0	530.6	311.3	204.7	35.3
85°	17.2	20.6	49.9	80.8	123.8	129.9	145.3	187.5	176.3	145.3	18.1
87.5°	2.6	2.6	20.6	22.4	18.1	23.2	24.1	26.7	56.8	53.3	9.5
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°	1047.4	1047.4	1047.4	1047.4	1047.4	1047.4	1047.4	1047.4	1047.4	1047.4	1047.4
2.5°	1049.1	1043.1	1021.6	1003.6	988.1	978.6	967.4	960.6	957.1	954.5	955.4
5°	1053.4	1038.8	1001.8	972.6	950.2	926.2	909.8	900.4	896.1	889.2	889.2
7.5°	1077.5	1054.3	1002.7	958.0	919.3	886.6	855.6	844.5	836.7	835.0	833.3
10°	1111.9	1082.7	1012.2	950.2	895.2	850.5	806.6	767.9	737.8	719.8	717.2
12.5°	1154.9	1112.8	1026.8	945.1	874.6	795.4	679.4	601.1	548.6	532.3	534.9
15°	1194.5	1148.9	1041.4	940.8	836.7	659.6	528.0	438.6	411.9	409.3	410.2
17.5°	1241.8	1187.6	1058.6	934.8	732.7	503.9	392.1	368.1	373.2	381.8	381.0
20°	1290.8	1228.9	1079.2	898.6	584.8	379.2	346.6	349.1	356.9	364.6	366.3
22.5°	1343.2	1276.2	1103.3	811.8	446.3	330.2	328.5	331.9	339.7	348.3	350.0
25°	1415.5	1335.5	1121.4	698.3	338.0	305.3	308.7	314.7	321.6	331.1	332.8
27.5°	1508.3	1415.5	1130.8	550.4	292.4	282.9	283.8	292.4	301.0	309.6	309.6
30°	1628.7	1510.9	1111.9	416.2	270.0	261.4	258.0	263.1	274.3	282.9	283.8
32.5°	1736.2	1601.2	1062.0	318.2	253.7	241.6	233.0	233.9	238.2	243.4	244.2
35°	1843.7	1688.9	976.9	267.4	236.5	222.7	209.8	202.9	199.5	196.9	199.5
37.5°	1981.3	1798.1	863.4	243.4	221.9	204.7	186.6	172.0	159.9	152.2	153.9
40°	2158.5	1949.5	729.2	227.9	208.1	187.5	163.4	144.5	123.8	117.0	113.5
42.5°	2450.8	2179.1	588.2	215.0	194.3	169.4	139.3	113.5	94.6	87.7	89.4
45°	2912.6	2468.9	453.2	201.2	180.6	149.6	117.0	89.4	74.0	70.5	72.2
47.5°	3524.9	2843.8	349.1	185.7	163.4	128.1	92.0	70.5	61.1	60.2	59.3
50°	4101.1	3193.0	291.5	168.5	142.8	106.6	75.7	59.3	53.3	52.5	52.5
52.5°	4622.2	3443.2	237.3	148.8	120.4	87.7	63.6	52.5	47.3	44.7	44.7
55°	5085.7	3606.6	192.6	124.7	94.6	69.7	55.0	47.3	41.3	37.8	37.0
57.5°	5435.7	3626.4	144.5	99.8	70.5	54.2	47.3	41.3	34.4	30.1	28.4
60°	5585.3	3455.3	106.6	75.7	52.5	43.0	37.8	33.5	25.8	21.5	20.6
62.5°	5434.8	3122.5	79.1	57.6	40.4	31.8	26.7	24.9	18.1	12.9	12.0
65°	4895.7	2641.7	62.8	43.9	30.1	23.2	17.2	16.3	11.2	6.0	5.2
67.5°	3922.2	2069.0	49.9	32.7	21.5	15.5	11.2	10.3	6.0	1.7	1.7
70°	2550.6	1322.6	40.4	24.1	13.8	10.3	6.9	5.2	3.4	0.9	0.0
72.5°	1261.5	618.3	32.7	18.9	9.5	5.2	2.6	1.7	2.6	0.0	0.0
75°	489.3	220.1	24.1	12.9	5.2	2.6	1.7	0.0	0.9	0.0	0.0
77.5°	162.5	73.1	14.6	6.9	3.4	1.7	0.0	0.0	0.0	0.0	0.0
80°	60.2	28.4	7.7	4.3	1.7	0.9	0.0	0.0	0.0	0.0	0.0
82.5°	24.1	11.2	5.2	3.4	1.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.0	6.9	3.4	2.6	1.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.6	5.2	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)