

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: P451201

Luminaire Tested: **GALN-SA2A-740-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451201
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2A-740-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6622 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

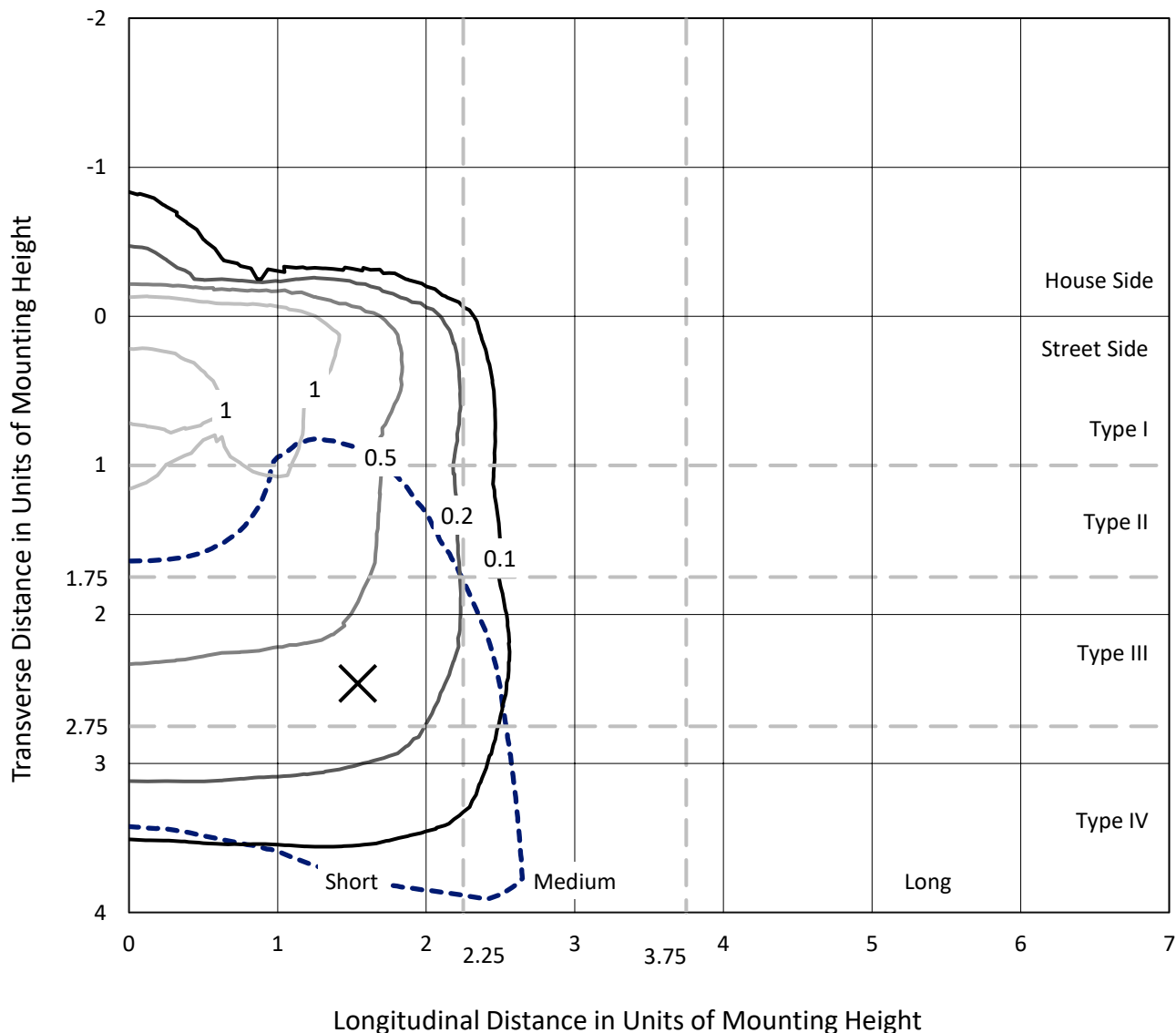
Input Watts (W): 63
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

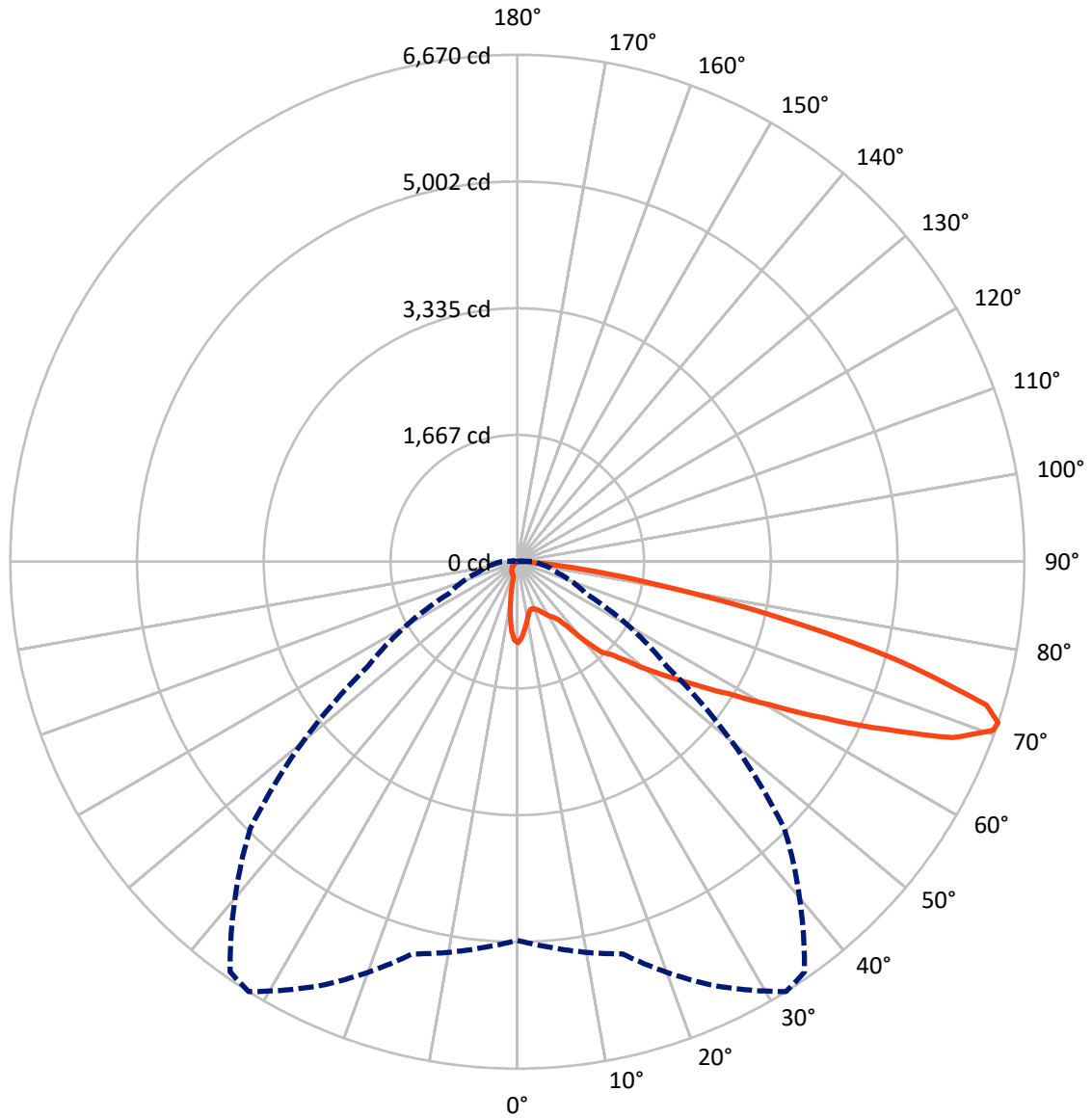
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	554.7	0.0	554.7
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	6067.3	0.0	6067.3
	% Fixture	91.6	0.0	91.6
Total	Lumens	6622.0	0.0	6622.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.6	1.3
10°-20°	187.9	2.8
20°-30°	292.4	4.4
30°-40°	487.1	7.4
40°-50°	906.1	13.7
50°-60°	1454.7	22.0
60°-70°	1956.6	29.5
70°-80°	1160.9	17.5
80°-90°	89.7	1.4
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°	6622.0	100.0
0°-180°	6622.0	100.0

Coefficient of Utilization

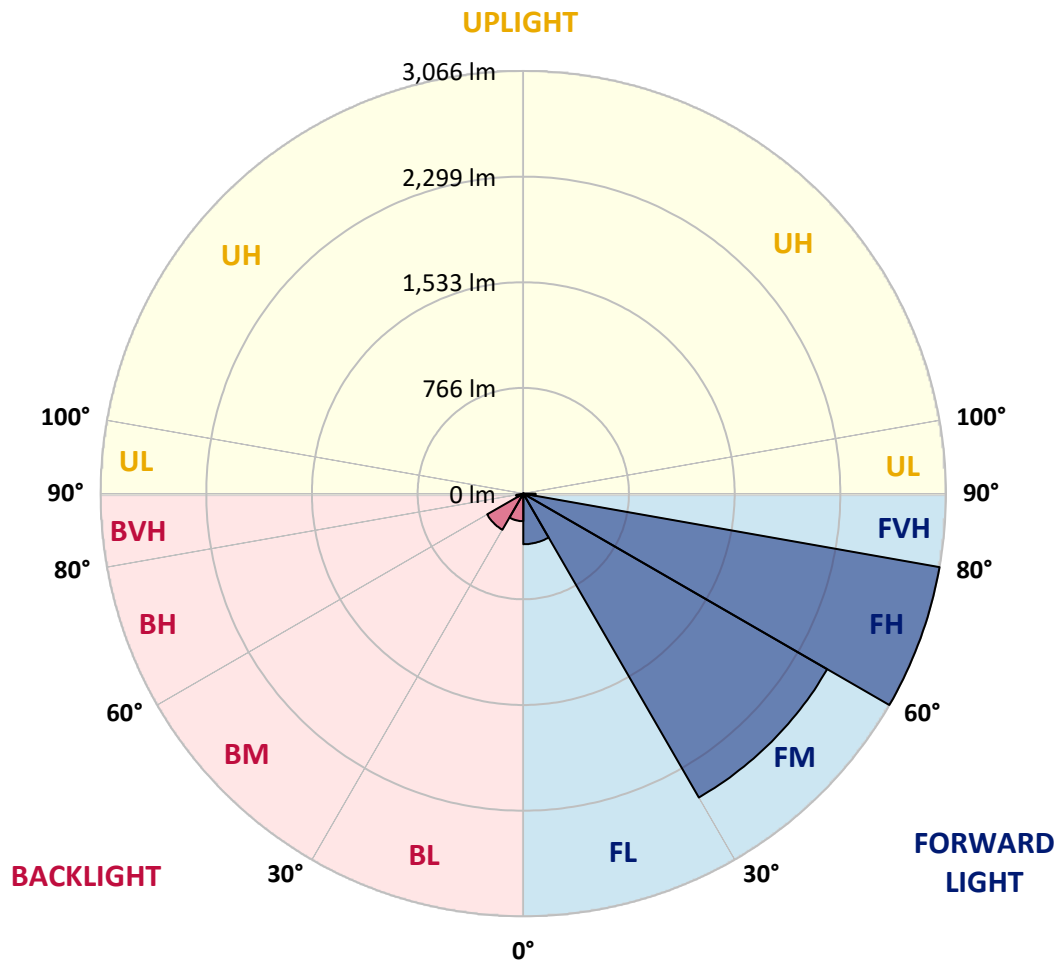


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	367.0	5.5			
FM (30°-60°)	2545.3	38.4			
FH (60°-80°)	3065.7	46.3			G2/5000
FVH (80°-90°)	89.4	1.3			G1/100
BL (0°-30°)	199.9	3.0	B1/500		
BM (30°-60°)	302.6	4.6	B1/1000		
BH (60°-80°)	51.9	0.8	B0/110		G0/110
BVH (80°-90°)	0.3	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	1064.9	1064.9	1064.9	1064.9	1064.9	1064.9	1064.9	1064.9	1064.9	1064.9	1064.9
2.5°	987.7	997.8	996.3	999.9	1008.5	1012.1	1021.7	1032.4	1047.1	1057.3	1063.9
5°	884.5	892.1	893.1	910.9	919.5	929.2	957.7	988.7	1023.2	1050.7	1069.0
7.5°	774.2	778.2	786.4	809.7	831.6	841.3	884.5	938.4	992.7	1044.1	1077.1
10°	683.2	687.8	702.5	727.4	747.7	760.4	820.4	888.0	964.3	1040.5	1088.8
12.5°	631.3	633.9	639.5	661.8	687.8	701.5	766.0	843.3	941.4	1042.0	1108.6
15°	627.8	626.8	620.1	629.3	652.7	666.9	729.9	812.8	921.1	1047.1	1132.0
17.5°	646.6	644.0	628.3	628.3	647.6	659.3	714.7	796.5	910.9	1058.8	1165.1
20°	675.6	671.5	645.6	643.5	662.3	674.5	723.8	797.5	912.9	1080.7	1209.3
22.5°	712.2	707.6	668.4	669.5	689.8	702.0	750.3	815.8	925.6	1107.6	1256.6
25°	759.9	754.8	708.6	706.6	727.9	738.6	789.4	848.4	943.4	1141.2	1318.6
27.5°	823.5	812.8	757.4	754.3	777.2	790.9	836.7	892.1	974.9	1187.4	1401.9
30°	875.8	864.1	811.3	803.1	827.5	838.2	885.5	951.1	1037.0	1268.2	1517.3
32.5°	944.5	927.2	865.2	843.8	869.7	883.5	956.1	1060.9	1129.0	1353.6	1654.6
35°	1099.0	1088.3	1012.6	937.8	936.3	953.6	1060.3	1171.7	1223.5	1486.8	1841.6
37.5°	1320.1	1312.5	1232.2	1132.0	1103.0	1094.9	1186.9	1293.7	1374.5	1669.8	2059.2
40°	1576.8	1559.0	1485.3	1400.4	1362.8	1338.9	1336.4	1475.1	1571.7	1918.4	2285.9
42.5°	1760.8	1728.3	1638.8	1632.7	1624.6	1599.7	1527.5	1740.5	1826.4	2185.8	2528.4
45°	1954.0	1904.7	1771.5	1748.6	1745.6	1744.0	1816.2	2054.6	2103.9	2475.5	2777.4
47.5°	2103.9	2064.8	1955.5	1945.3	1958.0	1992.6	2198.0	2388.1	2377.9	2733.7	2986.4
50°	2303.7	2274.2	2152.7	2172.0	2237.6	2294.0	2628.5	2751.5	2603.1	2937.0	3138.3
52.5°	2539.5	2485.2	2372.3	2424.7	2525.3	2619.3	3085.5	3069.7	2761.2	3090.1	3251.7
55°	2743.9	2705.3	2666.6	2721.0	2871.5	2988.9	3498.2	3308.1	2876.0	3213.1	3301.5
57.5°	3089.5	3080.4	3040.7	3096.1	3278.6	3400.6	3867.8	3493.1	2949.8	3277.1	3243.1
60°	3600.9	3586.2	3512.5	3583.1	3821.0	4012.6	4208.3	3659.4	2966.5	3252.2	3074.8
62.5°	4216.0	4165.6	4102.6	4206.8	4533.2	4617.5	4529.1	3758.0	2904.0	3054.0	2669.2
65°	4790.4	4738.5	4740.0	4959.6	5314.9	5372.4	4903.2	3743.2	2721.0	2557.3	1968.7
67.5°	5230.1	5221.4	5283.4	5711.9	6176.5	6136.9	5237.7	3522.6	2178.6	1657.6	1046.1
70°	5252.4	5269.2	5447.1	6170.4	6642.2	6579.1	5209.2	2863.3	1358.2	762.5	412.2
71°	4982.0	5094.8	5340.9	6156.2	6669.6	6587.8	4969.3	2398.2	996.3	531.7	297.4
72.5°	4245.5	4304.9	4836.6	5793.8	6452.6	6277.7	4360.8	1681.0	637.9	325.3	170.8
75°	2338.3	2484.6	3239.0	4545.4	5160.9	5007.4	2842.0	798.6	318.2	177.9	70.7
77.5°	1113.2	1084.7	1580.4	2703.2	3499.2	3491.1	1431.9	354.8	185.5	120.5	35.6
80°	318.2	357.9	604.9	1285.0	1942.8	1964.1	550.0	171.3	128.6	94.0	18.3
82.5°	96.1	98.1	222.1	568.3	966.3	910.9	206.4	87.4	92.5	74.7	10.7
85°	16.8	20.8	65.6	200.3	368.5	279.6	51.8	41.7	61.0	49.3	6.1
87.5°	1.0	1.5	21.9	22.9	32.5	18.8	9.1	6.1	13.2	13.2	3.6
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°	1064.9	1064.9	1064.9	1064.9	1064.9	1064.9	1064.9	1064.9	1064.9	1064.9	1064.9
2.5°	1068.5	1071.5	1069.5	1064.9	1057.3	1048.1	1035.9	1025.8	1017.1	1012.6	1018.2
5°	1075.1	1079.2	1069.0	1046.1	1011.5	973.9	931.2	898.2	872.3	864.1	861.1
7.5°	1085.3	1087.8	1060.3	1009.5	936.3	847.4	769.6	704.0	653.2	637.9	615.6
10°	1098.5	1096.9	1045.1	950.6	821.9	688.3	567.8	478.3	410.7	386.3	384.3
12.5°	1118.8	1110.7	1025.8	870.2	685.7	510.9	361.9	283.1	240.4	226.2	223.2
15°	1144.2	1124.9	995.3	776.2	525.1	329.9	223.2	199.3	193.7	192.7	191.6
17.5°	1174.2	1143.7	955.1	660.8	369.0	214.0	186.6	186.0	186.6	185.5	185.0
20°	1214.9	1163.5	907.3	524.1	244.0	180.5	177.9	177.9	178.4	177.9	177.9
22.5°	1258.1	1186.9	848.4	400.0	184.0	171.3	170.8	171.8	172.8	172.3	172.3
25°	1311.5	1217.4	770.6	274.0	164.7	163.7	164.2	166.2	168.3	168.8	168.3
27.5°	1388.7	1255.0	687.2	188.6	151.0	152.0	157.1	162.2	165.2	165.7	165.7
30°	1475.6	1296.7	578.5	153.0	139.8	139.8	145.9	155.5	162.2	163.2	163.7
32.5°	1587.5	1345.0	458.0	137.8	129.1	128.1	133.7	145.4	157.6	161.1	161.1
35°	1725.7	1401.9	340.6	128.1	121.5	118.9	122.0	131.7	147.4	157.6	158.6
37.5°	1887.9	1455.8	249.1	119.5	114.4	110.8	112.8	120.5	133.2	148.4	152.5
40°	2037.8	1503.6	186.0	112.3	107.3	104.7	106.2	109.8	120.5	134.7	137.2
42.5°	2201.5	1540.7	147.9	104.7	100.1	99.1	99.1	100.6	107.8	115.9	116.4
45°	2364.7	1553.9	124.0	95.6	92.5	93.5	93.0	92.0	95.1	94.0	94.0
47.5°	2481.1	1538.2	102.7	86.9	86.9	88.4	85.9	82.3	80.8	74.7	75.2
50°	2560.9	1480.7	84.4	76.8	80.8	82.9	77.8	72.2	66.6	60.0	58.5
52.5°	2593.9	1378.6	69.1	63.5	71.7	74.2	68.1	61.5	52.9	47.3	45.7
55°	2572.6	1252.5	57.4	51.8	60.5	63.5	57.4	49.8	40.2	34.1	33.0
57.5°	2478.5	1102.0	48.8	41.2	48.3	50.3	46.3	38.1	28.5	22.4	22.4
60°	2315.9	946.5	39.6	32.5	36.1	39.1	35.1	27.4	19.3	13.7	12.7
62.5°	1986.0	768.6	32.0	25.4	25.4	28.0	24.4	19.8	12.2	7.1	6.6
65°	1434.0	527.1	25.4	18.8	18.3	18.3	15.2	13.2	7.1	3.0	2.0
67.5°	779.2	297.4	20.3	14.2	12.7	12.2	9.7	7.6	3.0	0.5	0.0
70°	306.5	114.4	15.8	9.7	8.1	7.6	5.1	3.6	2.0	0.0	0.0
71°	207.9	78.8	13.7	8.1	6.6	5.6	4.1	3.0	1.5	0.0	0.0
72.5°	118.9	48.8	10.7	6.1	5.1	4.1	3.0	2.0	1.5	0.0	0.0
75°	51.8	24.9	6.6	4.6	3.6	2.5	2.0	1.5	0.5	0.0	0.0
77.5°	26.4	13.7	4.6	3.6	2.0	1.5	1.0	0.5	0.0	0.0	0.0
80°	14.7	7.1	3.0	2.0	1.5	1.0	0.5	0.5	0.0	0.0	0.0
82.5°	8.1	4.1	1.5	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.1	2.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.5	1.0	0.0	0.0	0.0	0.0	0.5	0.5	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)