

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: P651808

Luminaire Tested: **GALN-SA3A-840-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651808
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-840-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8429.3 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

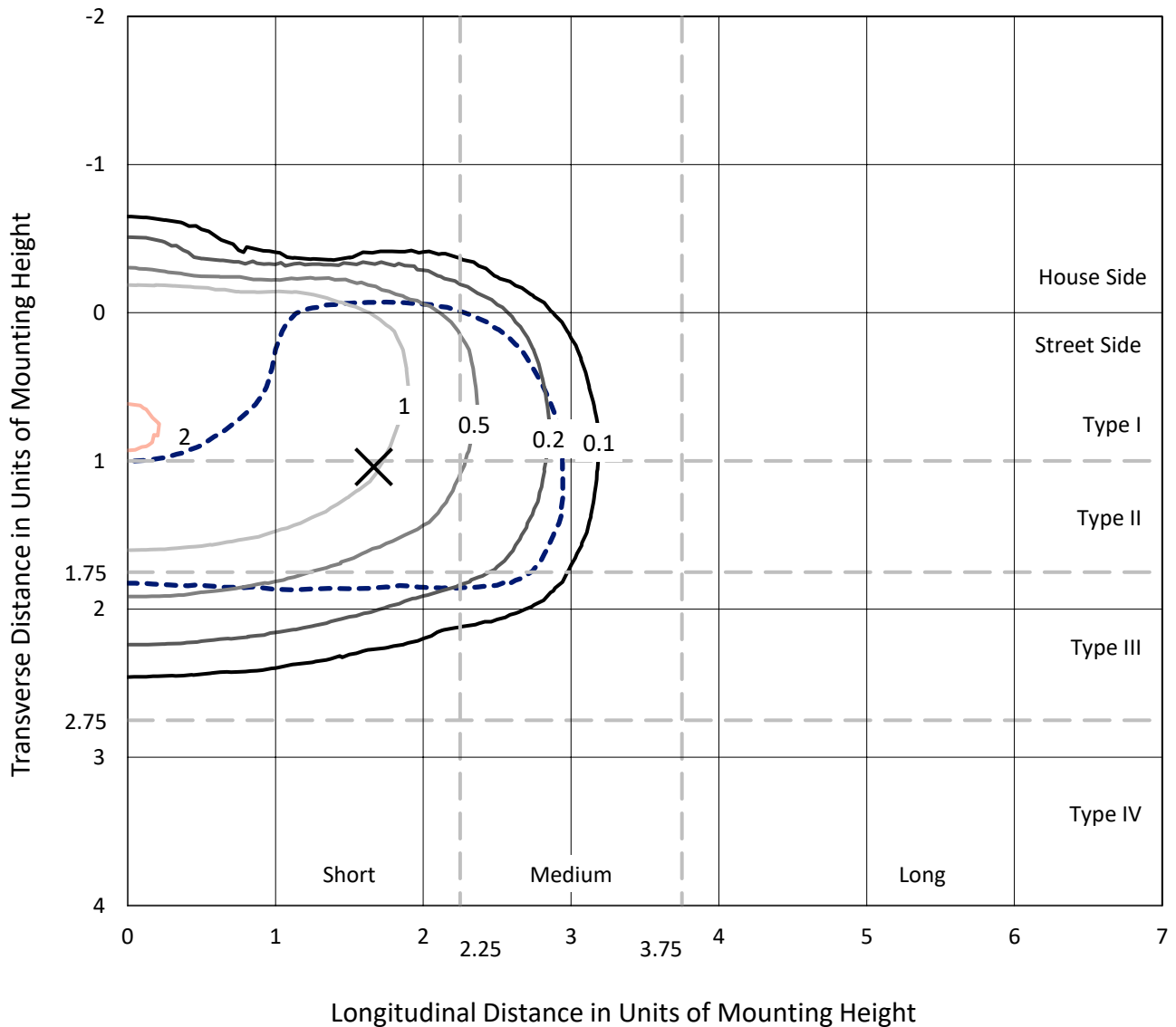
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

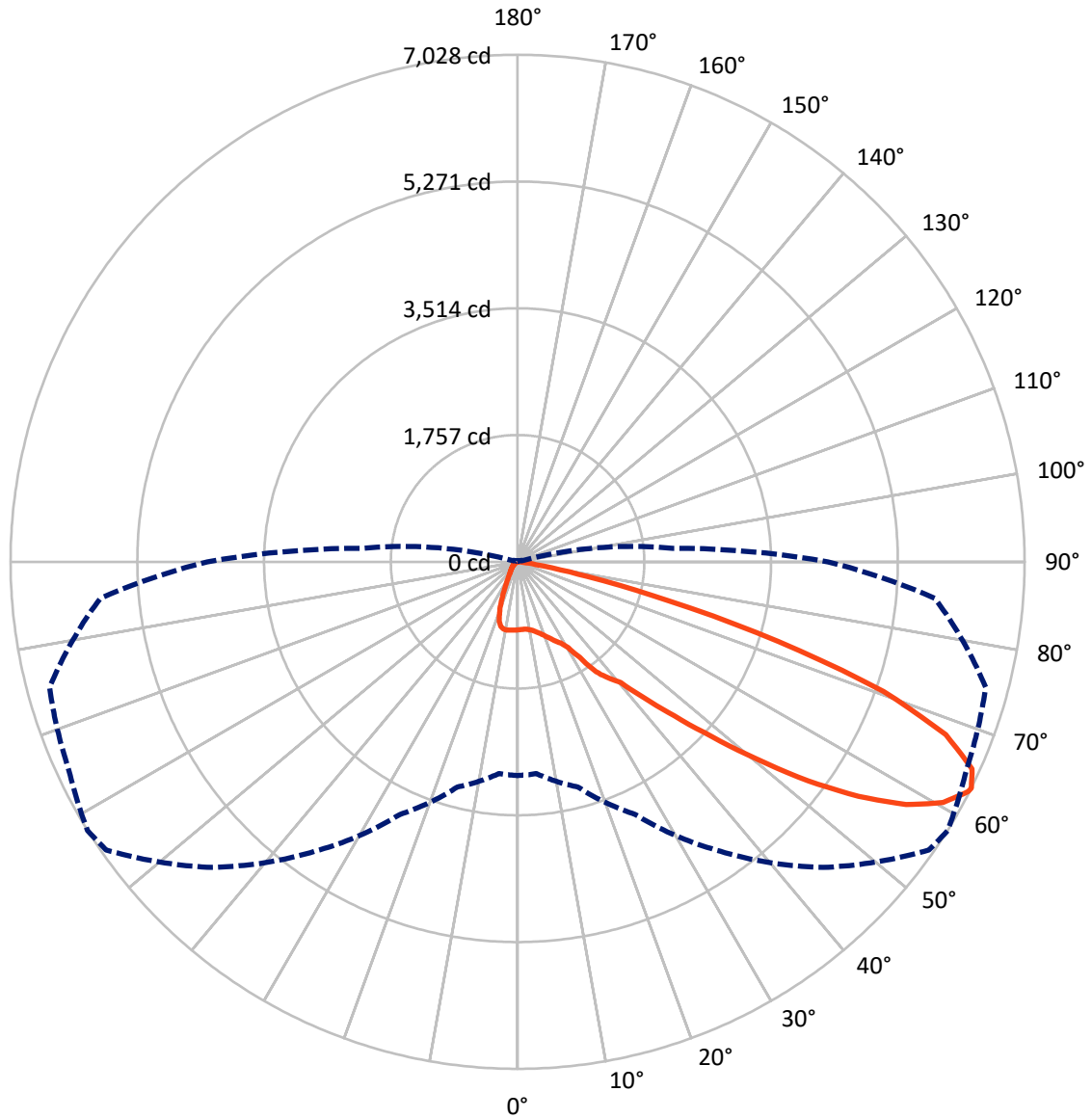
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	872.8	0.0	872.8
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	7556.5	0.0	7556.5
	% Fixture	89.6	0.0	89.6
Total	Lumens	8429.3	0.0	8429.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.3	1.0
10°-20°	240.6	2.9
20°-30°	417.6	5.0
30°-40°	767.4	9.1
40°-50°	1444.6	17.1
50°-60°	2470.8	29.3
60°-70°	2365.8	28.1
70°-80°	603.3	7.2
80°-90°	30.8	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°	8429.3	100.0
0°-180°	8429.3	100.0

Coefficient of Utilization

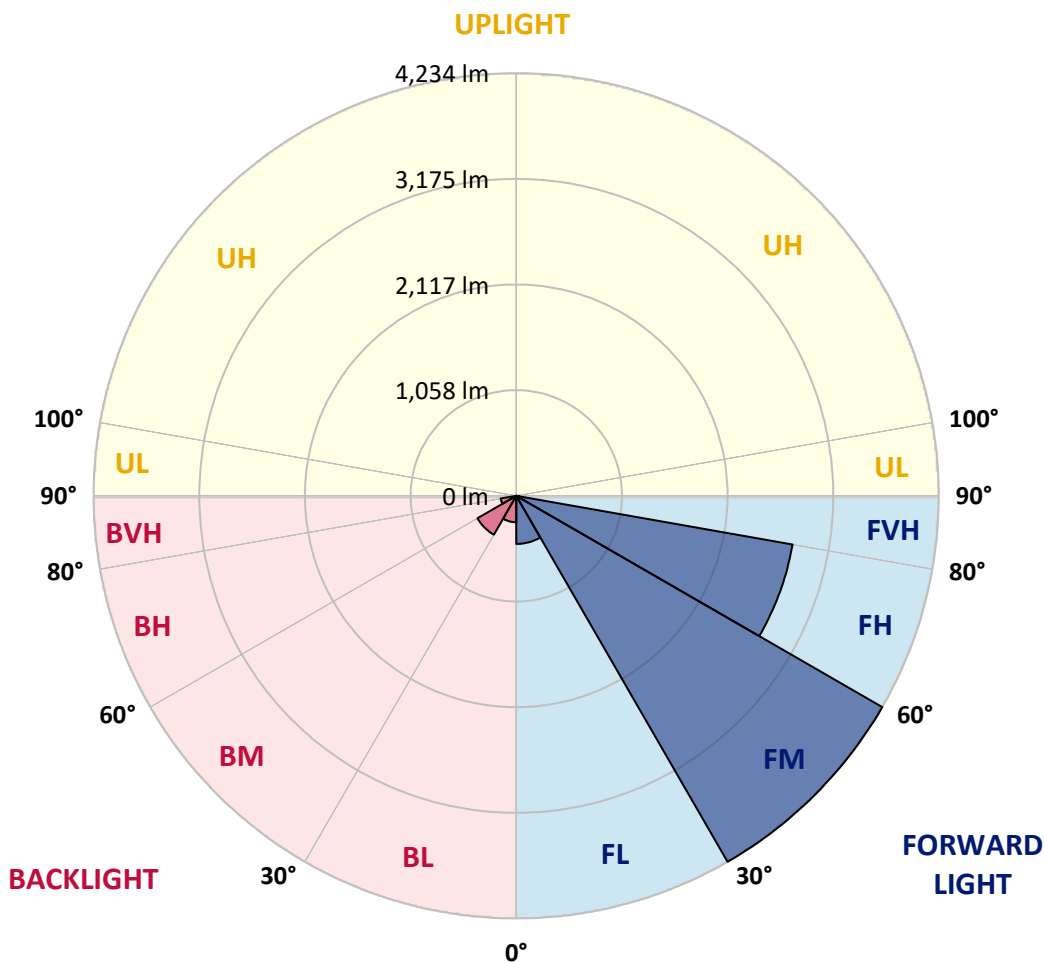


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	481.9	5.7			
FM (30°-60°)	4233.9	50.2			
FH (60°-80°)	2811.1	33.3			G2/5000
FVH (80°-90°)	29.7	0.4			G1/100
BL (0°-30°)	264.7	3.1	B1/500		
BM (30°-60°)	448.9	5.3	B1/1000		
BH (60°-80°)	158.0	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°	45°	55°	58°	65°	75°	85°
0°	943.7	943.7	943.7	943.7	943.7	943.7	943.7	943.7	943.7	943.7	943.7
2.5°	920.2	923.4	926.5	927.8	932.2	936.7	939.9	939.2	944.4	946.9	946.9
5°	883.4	883.4	891.6	899.3	912.0	924.7	936.7	939.2	948.8	957.6	960.8
7.5°	852.3	854.2	860.6	874.6	891.6	913.8	938.0	943.7	960.2	979.8	988.1
10°	837.7	839.0	847.2	861.9	883.4	913.8	947.5	958.3	983.7	1014.8	1026.2
12.5°	834.5	836.5	844.7	861.2	885.9	922.7	968.4	979.8	1016.7	1056.6	1073.8
15°	840.2	841.5	849.7	867.6	894.8	938.6	996.3	1012.2	1056.0	1102.4	1124.6
17.5°	860.6	859.2	865.0	879.6	910.0	958.3	1030.0	1049.1	1100.4	1163.9	1178.5
20°	946.9	938.6	933.5	920.8	932.9	986.2	1070.6	1098.5	1162.0	1226.8	1236.9
22.5°	1132.8	1114.4	1078.2	1028.7	990.7	1024.3	1119.5	1151.8	1233.7	1297.2	1297.2
25°	1369.6	1346.0	1309.9	1202.0	1108.7	1087.2	1174.7	1215.3	1311.8	1375.9	1354.9
27.5°	1665.9	1647.5	1577.0	1451.4	1308.6	1196.9	1238.8	1276.2	1380.9	1458.4	1414.6
30°	1907.1	1898.2	1840.4	1728.1	1570.7	1407.6	1358.1	1382.9	1473.0	1562.5	1517.4
32.5°	2110.8	2110.8	2051.8	1947.1	1799.8	1655.1	1560.6	1578.3	1664.7	1768.1	1684.4
35°	2334.8	2327.2	2279.6	2180.0	2015.0	1887.4	1848.7	1872.8	1950.9	2027.7	1821.4
37.5°	2570.3	2567.7	2518.2	2421.7	2287.2	2126.6	2035.9	2042.3	2082.2	2129.2	1982.0
40°	2826.0	2829.8	2765.1	2705.4	2578.5	2414.2	2240.3	2200.3	2237.7	2370.4	2278.4
42.5°	3128.1	3119.2	3091.3	3010.0	2907.8	2809.5	2600.7	2586.2	2619.1	2761.3	2661.7
45°	3479.0	3491.7	3443.5	3398.5	3329.9	3248.0	3073.5	3048.1	3084.3	3305.1	3163.7
47.5°	3830.7	3818.6	3849.7	3841.4	3878.3	3817.3	3663.1	3611.1	3698.0	3907.5	3699.3
50°	4098.4	4111.8	4176.5	4271.1	4429.1	4463.4	4315.5	4297.8	4336.4	4471.0	4178.4
52.5°	4272.4	4316.8	4418.3	4661.4	4946.3	5167.8	5055.5	5045.9	5030.1	5066.3	4636.6
55°	4385.9	4431.0	4563.6	4921.5	5412.2	5772.0	5777.7	5737.0	5632.3	5606.4	5065.0
57.5°	4316.1	4325.0	4514.2	4992.7	5670.4	6202.9	6389.5	6348.9	6155.3	6057.0	5443.2
60°	3879.5	3897.9	4161.3	4723.6	5558.1	6343.7	6795.0	6776.6	6564.6	6453.6	5737.7
62.5°	3105.9	3159.2	3430.2	4057.2	5035.8	6106.4	6959.4	7011.4	6846.4	6693.4	5830.4
63°	2963.8	2946.6	3232.8	3863.0	4897.5	5989.0	6961.9	7027.9	6859.1	6716.3	5805.0
65°	2193.9	2245.3	2431.2	3046.3	4075.6	5442.6	6805.1	6921.9	6812.1	6615.4	5523.9
67.5°	1231.8	1229.3	1434.9	1993.3	2852.7	4269.2	6153.4	6400.3	6377.4	5936.4	4578.9
70°	602.9	612.4	696.9	1033.2	1654.5	2945.4	5113.2	5379.8	5388.0	4662.7	3166.2
72.5°	272.9	277.4	337.7	503.3	850.4	1568.2	3523.5	3777.9	3731.0	2971.3	1748.4
75°	144.1	153.6	185.9	253.2	410.0	646.7	1916.6	2162.8	2064.5	1357.5	643.5
77.5°	106.6	109.8	126.3	161.2	219.6	252.0	827.0	983.7	921.5	491.2	213.3
80°	78.0	80.6	93.9	114.2	138.3	128.2	311.6	357.3	320.5	166.9	65.3
82.5°	47.6	48.3	68.5	85.0	87.0	71.7	102.8	110.4	115.5	93.9	35.6
85°	17.2	21.6	46.3	61.6	51.4	36.2	43.1	47.6	52.1	59.6	20.9
87.5°	1.9	2.5	22.2	29.9	14.6	13.3	15.9	17.7	19.0	22.2	10.2
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°	943.7	943.7	943.7	943.7	943.7	943.7	943.7	943.7	943.7	943.7	943.7
2.5°	949.4	951.9	950.1	946.9	946.2	944.4	940.5	940.5	940.5	941.8	940.5
5°	963.4	965.3	960.8	954.5	947.5	938.6	929.1	923.4	922.7	921.5	918.3
7.5°	990.0	992.5	982.4	967.2	948.1	926.5	906.3	887.3	878.3	871.4	871.4
10°	1028.7	1031.3	1011.0	983.7	945.6	901.8	853.6	809.8	775.5	759.7	755.8
12.5°	1075.1	1076.3	1042.7	995.1	932.2	847.9	745.0	649.3	582.6	552.1	548.9
15°	1125.8	1116.9	1072.5	999.5	894.2	736.8	559.1	441.7	372.6	352.2	359.9
17.5°	1177.2	1160.7	1095.4	992.5	808.5	559.1	375.7	301.4	279.9	274.2	274.2
20°	1225.5	1202.6	1111.9	962.1	660.0	385.3	278.6	260.8	257.0	253.2	253.8
22.5°	1273.7	1238.8	1126.4	894.2	491.8	275.4	249.4	243.7	238.6	233.5	232.9
25°	1320.7	1272.4	1132.2	768.5	335.1	236.7	227.8	220.3	210.1	204.4	203.1
27.5°	1369.6	1313.1	1128.4	609.9	244.3	211.9	203.1	192.3	180.2	170.1	170.1
30°	1463.4	1390.5	1115.1	438.5	205.6	186.6	175.2	158.0	144.7	134.6	133.9
32.5°	1591.7	1491.3	1069.3	308.4	182.7	164.3	147.3	128.2	114.2	106.6	106.6
35°	1705.9	1592.9	983.7	227.2	164.3	142.8	121.9	103.4	92.7	87.5	85.7
37.5°	1879.8	1741.5	865.6	184.7	146.6	123.8	102.2	85.0	76.2	72.3	72.3
40°	2140.6	1922.9	720.9	161.8	129.4	105.4	85.0	71.7	64.8	60.3	60.3
42.5°	2464.3	2145.1	574.3	145.3	113.6	90.7	71.1	60.9	54.6	51.4	50.8
45°	2871.7	2379.3	442.4	130.1	100.9	77.5	60.3	51.4	45.1	43.1	43.8
47.5°	3296.9	2585.5	342.7	116.7	87.5	65.3	51.4	44.4	39.9	37.4	37.4
50°	3659.9	2727.6	260.2	101.5	77.5	55.3	45.1	39.9	36.2	34.9	34.2
52.5°	3963.3	2768.9	199.2	88.2	67.9	47.6	39.9	36.2	33.0	31.1	31.1
55°	4221.6	2732.7	156.1	74.3	57.1	41.3	35.6	32.4	28.6	26.7	26.0
57.5°	4372.6	2616.6	119.3	61.6	46.3	34.2	31.1	27.2	22.9	19.7	19.7
60°	4448.8	2447.8	91.4	50.8	35.6	27.2	25.4	20.3	15.9	13.3	12.7
62.5°	4357.4	2223.8	69.2	39.9	26.7	20.3	17.2	14.6	10.2	7.7	7.7
63°	4300.9	2159.0	66.6	38.1	24.7	19.0	15.9	13.3	8.9	7.0	6.3
65°	3920.7	1876.6	54.6	30.4	19.7	13.3	10.8	9.5	6.3	3.2	2.5
67.5°	3113.5	1435.5	43.1	22.9	14.0	9.5	6.3	5.7	1.9	0.0	0.0
70°	2105.1	927.2	33.6	16.5	9.5	5.7	3.2	2.5	0.7	0.0	0.0
72.5°	1097.9	475.3	26.0	12.0	5.7	3.8	1.9	0.7	0.0	0.0	0.0
75°	388.4	161.8	19.0	7.7	3.8	1.9	0.7	0.0	0.0	0.0	0.0
77.5°	117.4	60.3	12.0	5.7	2.5	1.3	0.0	0.0	0.0	0.0	0.0
80°	41.3	22.2	7.0	3.8	1.9	0.7	0.0	0.0	0.0	0.0	0.0
82.5°	20.3	10.8	4.5	3.2	1.9	0.7	0.0	0.0	0.0	0.0	0.0
85°	11.4	7.0	3.8	3.2	1.9	1.3	0.0	0.0	0.0	0.0	0.0
87.5°	8.2	5.0	3.8	3.2	2.5	1.3	0.7	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)