

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: P450706

Luminaire Tested: **GALN-SA1C-730-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450706
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-SA1C-730-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5072 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

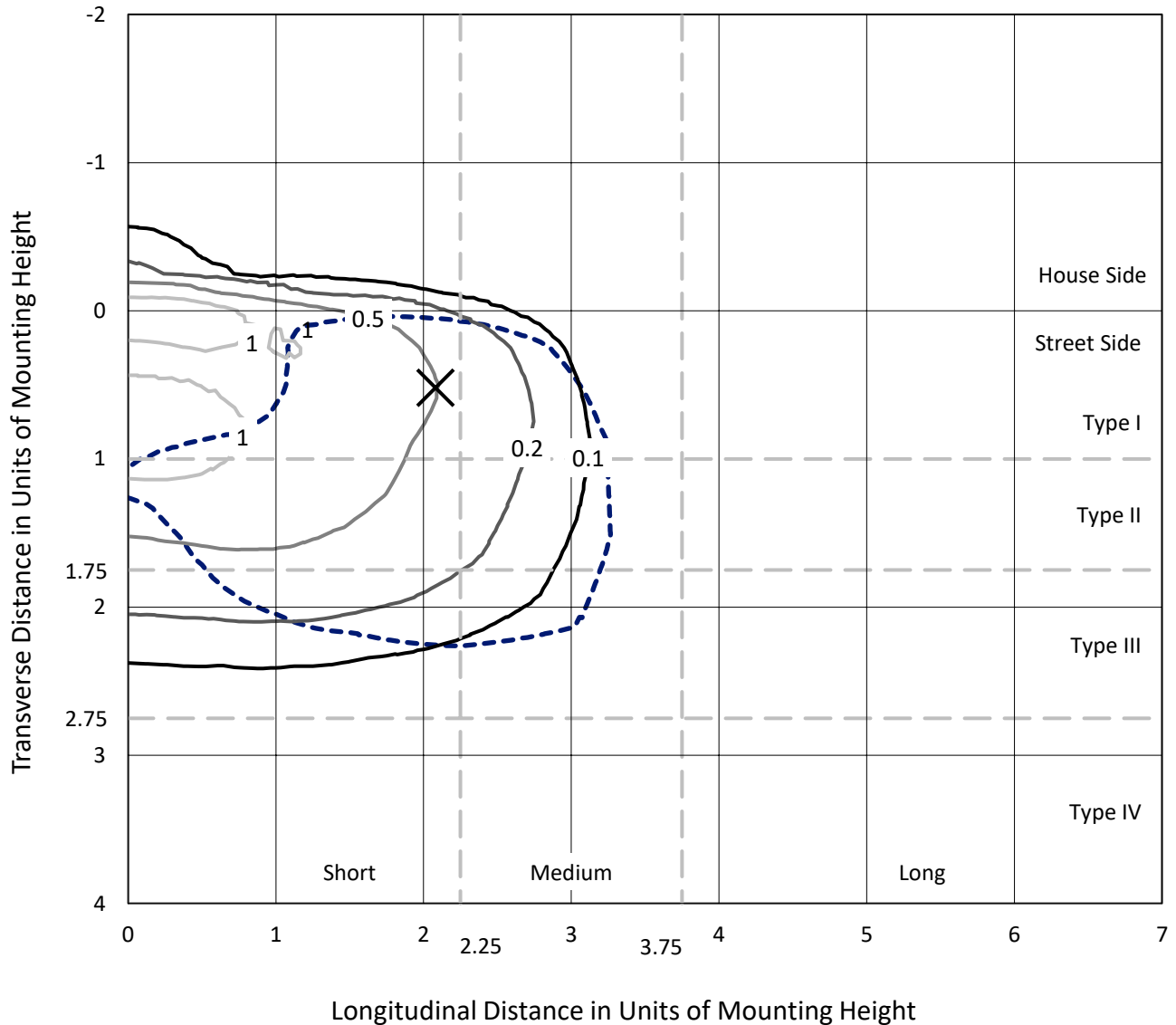
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

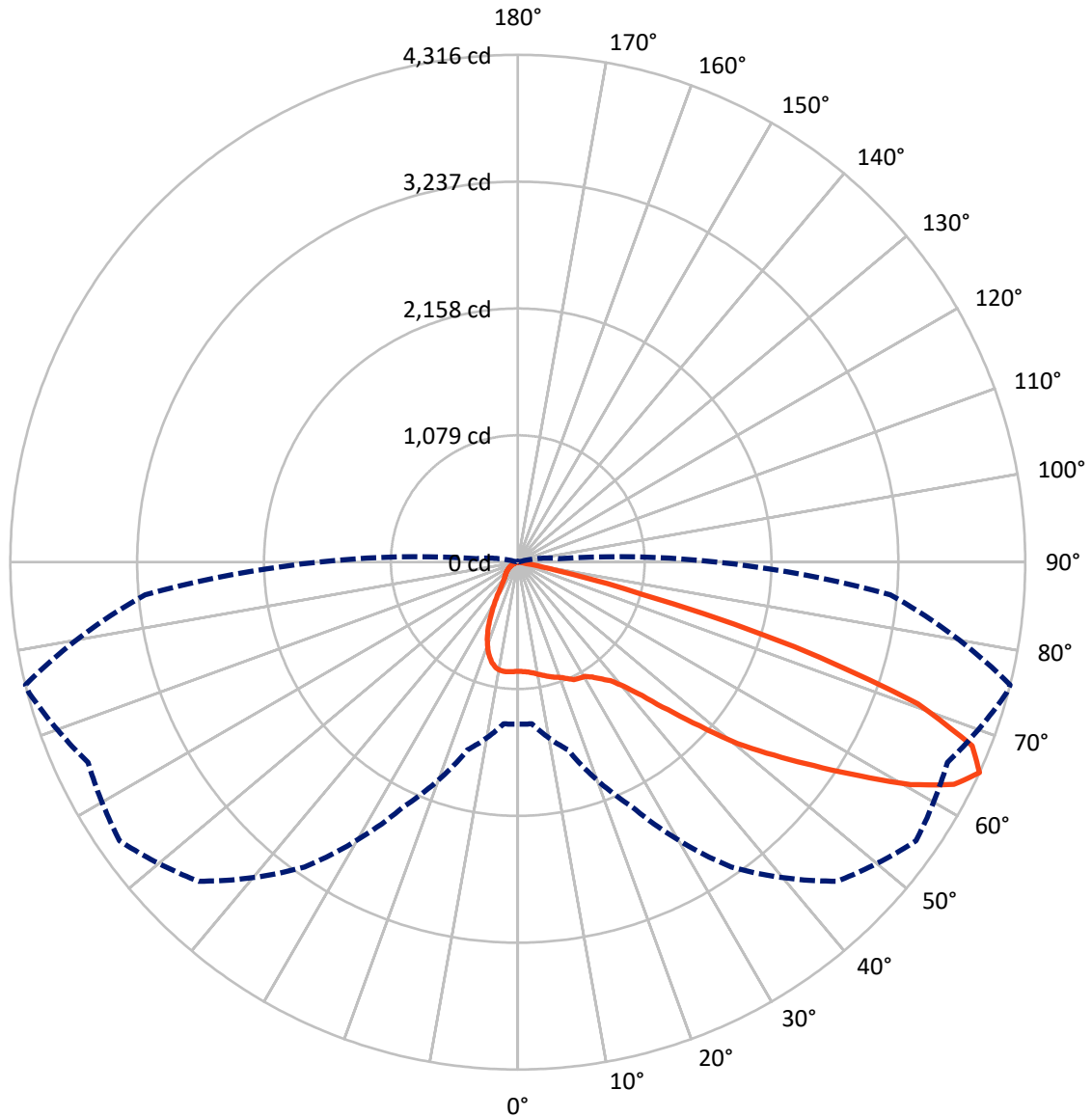
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 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	366.3	0.0	366.3
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	4705.7	0.0	4705.7
	% Fixture	92.8	0.0	92.8
Total	Lumens	5072.0	0.0	5072.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.4	1.5
10°-20°	170.2	3.4
20°-30°	274.2	5.4
30°-40°	476.8	9.4
40°-50°	787.9	15.5
50°-60°	1217.2	24.0
60°-70°	1486.3	29.3
70°-80°	564.1	11.1
80°-90°	18.8	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°	5072.0	100.0
0°-180°	5072.0	100.0

Coefficient of Utilization



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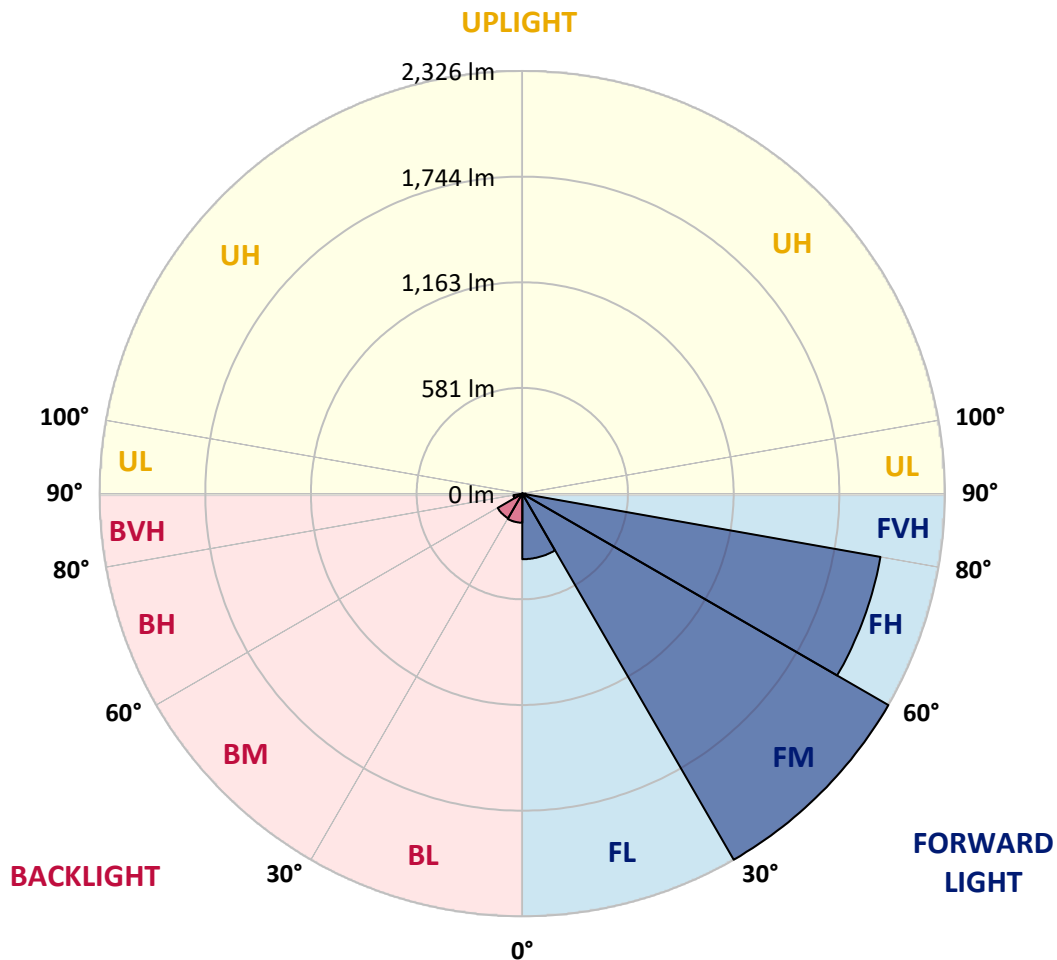
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	360.8	7.1			
FM (30°-60°)	2325.6	45.9			
FH (60°-80°)	2000.7	39.4			G2/5000
FVH (80°-90°)	18.6	0.4			G1/100
BL (0°-30°)	160.0	3.2	B1/500		
BM (30°-60°)	156.3	3.1	B0/220		
BH (60°-80°)	49.7	1.0	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	927.8	927.8	927.8	927.8	927.8	927.8	927.8	927.8	927.8	927.8	927.8
2.5°	886.6	887.0	889.2	894.5	902.8	909.6	915.3	924.6	931.1	931.8	933.9
5°	825.4	821.1	825.4	839.4	851.9	870.9	894.2	917.4	938.2	939.6	949.7
7.5°	756.7	760.2	767.0	781.4	805.0	834.0	867.7	909.2	948.6	952.2	971.9
10°	686.8	694.7	705.8	727.7	760.6	798.2	844.0	903.5	965.1	970.1	1004.1
12.5°	622.4	626.0	639.6	668.9	709.7	762.7	826.1	900.3	983.3	989.4	1038.5
15°	573.0	577.6	589.4	615.9	661.4	729.4	811.4	899.2	1001.2	1009.8	1072.9
17.5°	563.6	566.5	571.5	589.4	629.2	702.9	798.2	898.8	1018.4	1028.8	1104.7
20°	602.0	599.5	594.4	592.7	614.5	682.5	788.5	901.7	1034.9	1046.7	1138.4
22.5°	697.9	701.2	671.8	637.1	629.9	679.3	787.1	915.3	1061.0	1075.0	1176.0
25°	901.7	877.0	831.1	748.1	685.4	699.0	803.2	947.5	1091.5	1106.9	1210.0
27.5°	1126.9	1119.4	1048.2	911.4	794.6	740.5	831.9	972.2	1101.5	1117.3	1229.3
30°	1348.2	1357.2	1275.5	1124.4	953.3	817.5	858.7	981.5	1110.5	1126.9	1254.1
32.5°	1553.4	1564.2	1492.6	1342.9	1140.2	950.7	904.9	1017.7	1148.1	1164.9	1295.2
35°	1714.9	1716.4	1662.3	1543.0	1344.3	1112.6	1004.8	1081.1	1198.9	1218.6	1338.9
37.5°	1863.2	1861.0	1797.6	1694.9	1514.4	1273.4	1130.5	1154.1	1256.9	1277.3	1402.0
40°	1973.1	1974.5	1954.1	1857.5	1673.0	1422.0	1230.1	1222.5	1354.3	1386.2	1493.6
42.5°	2046.5	2059.8	2069.8	2020.7	1872.5	1605.0	1383.0	1369.0	1523.3	1549.8	1623.3
45°	2106.0	2129.6	2179.7	2177.2	2064.1	1829.5	1592.8	1564.2	1762.9	1791.2	1788.3
47.5°	2149.3	2173.3	2256.4	2306.5	2244.2	2047.2	1856.7	1832.0	2049.0	2079.8	1970.6
50°	2171.5	2200.2	2306.1	2403.2	2384.9	2257.1	2157.5	2159.0	2394.6	2424.3	2181.9
52.5°	2119.6	2156.8	2332.6	2507.4	2542.9	2458.0	2439.4	2486.6	2702.2	2727.6	2372.8
55°	1953.8	2000.7	2296.5	2596.2	2725.8	2695.0	2759.5	2831.5	3038.5	3054.9	2568.6
57.5°	1848.9	1898.6	2189.8	2671.8	2945.7	2993.0	3095.0	3147.7	3385.5	3427.4	2793.5
60°	1760.4	1799.4	2102.0	2687.9	3169.2	3357.5	3456.7	3511.1	3813.7	3841.0	3041.0
62.5°	1613.2	1658.0	1953.8	2575.4	3281.6	3649.4	3854.9	3830.6	4145.0	4164.0	3192.8
65°	1376.5	1380.5	1653.0	2292.9	3165.6	3838.8	4134.6	4032.5	4303.3	4316.1	3181.0
67.5°	1027.4	1065.3	1271.6	1802.3	2673.9	3676.9	4225.2	4037.9	4203.3	4167.5	2928.5
70°	661.8	690.8	861.9	1249.8	1928.0	3068.5	3924.7	3761.1	3689.1	3609.6	2397.1
72.5°	305.5	342.7	512.1	714.0	1143.4	2185.8	3186.0	3055.6	2655.3	2459.1	1523.7
75°	133.2	142.5	252.8	376.7	536.1	1155.9	2100.6	1896.8	1199.3	1095.4	609.8
77.5°	81.3	87.4	132.5	202.0	210.6	440.5	1131.6	827.6	370.6	326.9	165.4
80°	55.1	62.0	96.3	105.6	72.0	122.8	424.7	220.9	74.8	71.6	35.5
82.5°	26.9	34.0	71.3	59.1	31.2	39.4	123.5	47.3	21.8	20.4	12.5
85°	3.9	6.8	40.1	38.7	14.0	9.3	21.8	11.8	7.5	7.2	5.7
87.5°	0.0	0.0	13.6	6.1	1.4	1.4	2.5	2.5	2.9	2.5	2.9
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°	927.8	927.8	927.8	927.8	927.8	927.8	927.8	927.8	927.8	927.8	927.8
2.5°	935.0	936.8	930.0	920.3	909.9	899.5	884.9	871.6	863.7	868.4	856.9
5°	951.8	950.4	932.5	903.1	864.1	817.2	770.6	730.9	718.0	698.6	696.5
7.5°	975.1	971.2	933.2	865.9	777.8	689.7	603.8	546.8	514.2	486.7	487.4
10°	1007.7	996.2	925.0	800.3	655.3	522.5	412.9	337.7	305.1	294.7	286.5
12.5°	1041.3	1019.1	902.0	711.9	510.3	357.0	251.0	205.2	185.1	178.7	178.0
15°	1071.4	1036.3	861.9	605.5	371.0	228.1	171.2	156.1	153.6	154.0	153.6
17.5°	1101.1	1049.9	806.4	492.7	252.1	163.7	147.2	143.6	144.7	146.1	145.7
20°	1125.9	1052.8	735.5	376.0	178.3	143.6	138.2	137.5	138.6	139.7	139.7
22.5°	1152.7	1055.0	651.4	260.3	145.7	133.6	130.7	130.7	132.1	133.6	133.9
25°	1172.8	1043.1	550.8	186.9	128.6	123.9	122.5	122.8	124.3	125.0	124.6
27.5°	1176.0	1009.8	444.0	143.2	116.7	112.1	110.7	112.1	110.3	111.4	110.7
30°	1178.9	967.6	335.9	120.7	106.0	98.8	96.7	94.5	93.1	91.3	91.0
32.5°	1187.8	917.8	245.3	108.5	96.0	88.1	83.1	77.0	72.3	70.9	70.5
35°	1191.7	858.0	180.1	98.8	87.0	78.4	69.5	60.9	54.1	51.6	53.4
37.5°	1206.8	800.0	139.7	91.7	79.1	68.4	56.9	46.2	39.7	38.3	39.0
40°	1237.6	737.0	117.1	85.6	72.3	59.1	45.1	34.7	30.4	29.0	28.6
42.5°	1287.0	674.3	104.2	79.9	65.5	49.8	35.5	27.2	23.6	22.6	22.6
45°	1347.2	614.1	95.3	73.8	58.4	40.1	27.9	21.8	19.7	19.0	19.0
47.5°	1426.3	561.5	87.7	67.7	50.5	31.9	22.6	19.0	17.5	17.9	18.3
50°	1506.5	522.5	79.5	60.9	41.5	26.1	19.3	16.8	16.5	16.8	16.8
52.5°	1567.0	499.5	68.4	51.6	32.6	21.8	17.2	15.8	15.4	14.7	14.7
55°	1648.7	494.5	54.4	41.9	25.8	18.3	15.4	14.3	13.2	12.5	12.2
57.5°	1753.6	500.3	41.9	32.6	20.1	15.0	13.6	11.8	10.4	9.0	9.0
60°	1818.8	487.4	32.6	25.1	14.7	12.2	10.4	8.6	6.8	5.7	5.4
62.5°	1798.0	432.9	25.8	18.6	10.4	9.0	6.8	5.7	3.9	2.9	2.5
65°	1690.9	349.5	20.8	12.9	7.5	5.4	3.6	3.6	1.8	0.4	0.0
67.5°	1480.0	258.9	16.5	8.6	4.3	2.5	1.8	1.1	0.0	0.0	0.0
70°	1204.6	186.9	12.9	5.4	2.5	1.8	0.7	0.4	0.0	0.0	0.0
72.5°	764.9	107.1	10.0	3.2	1.8	0.7	0.0	0.0	0.0	0.0	0.0
75°	295.8	41.9	6.8	2.1	0.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	83.8	19.7	3.9	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	21.8	8.6	2.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	10.4	3.6	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.1	1.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.9	0.4	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)