

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: P199923

Luminaire Tested: **GWC-AF-01-LED-E1-AFL-7030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199923
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GWC-AF-01-LED-E1-AFL-7030-600-HSS
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3258.7 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B0 - U0 - G0

Input Watts (W): 34
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: 25 FT

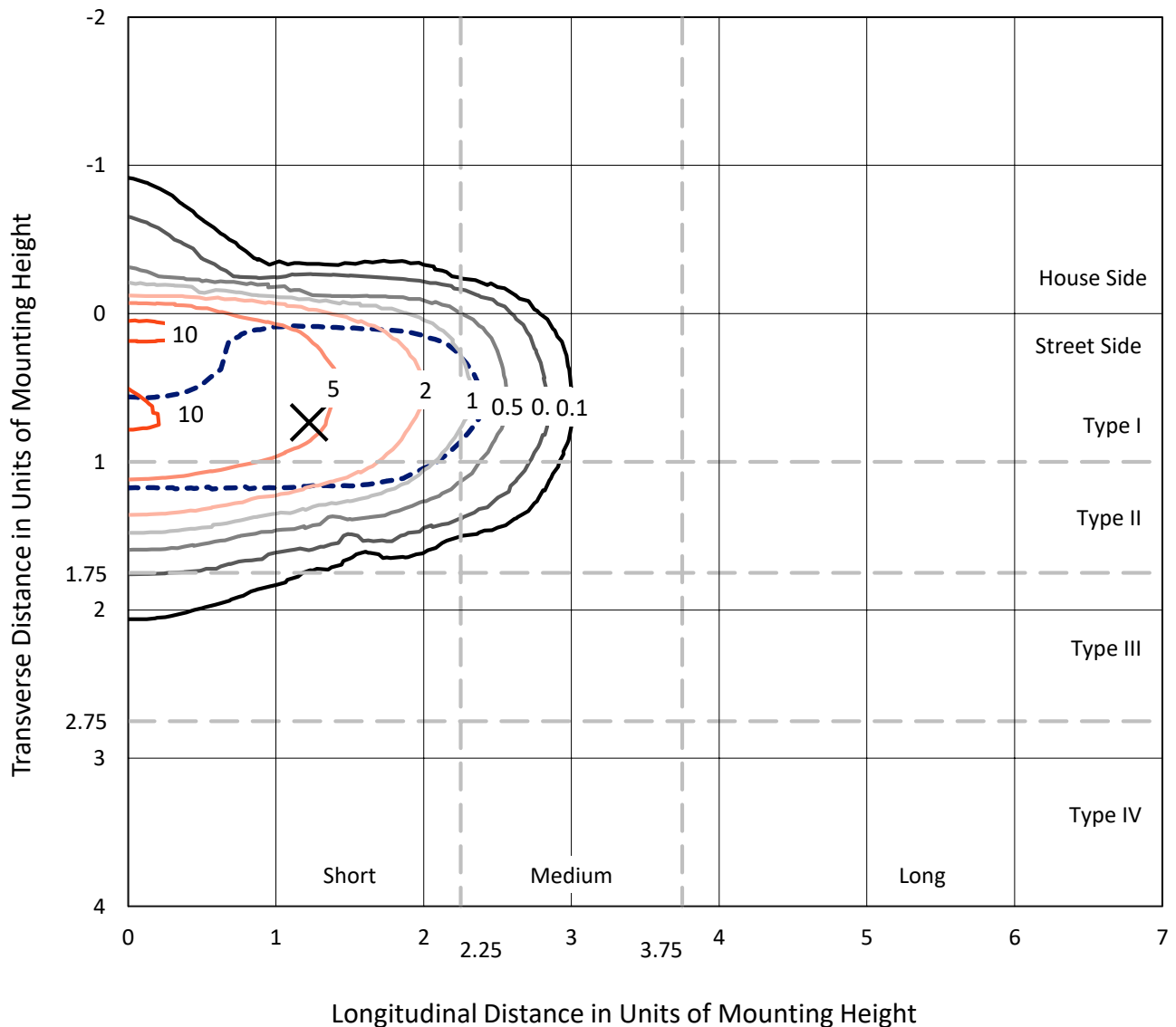


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Iso-Footcandle Lines of Horizontal Illumination

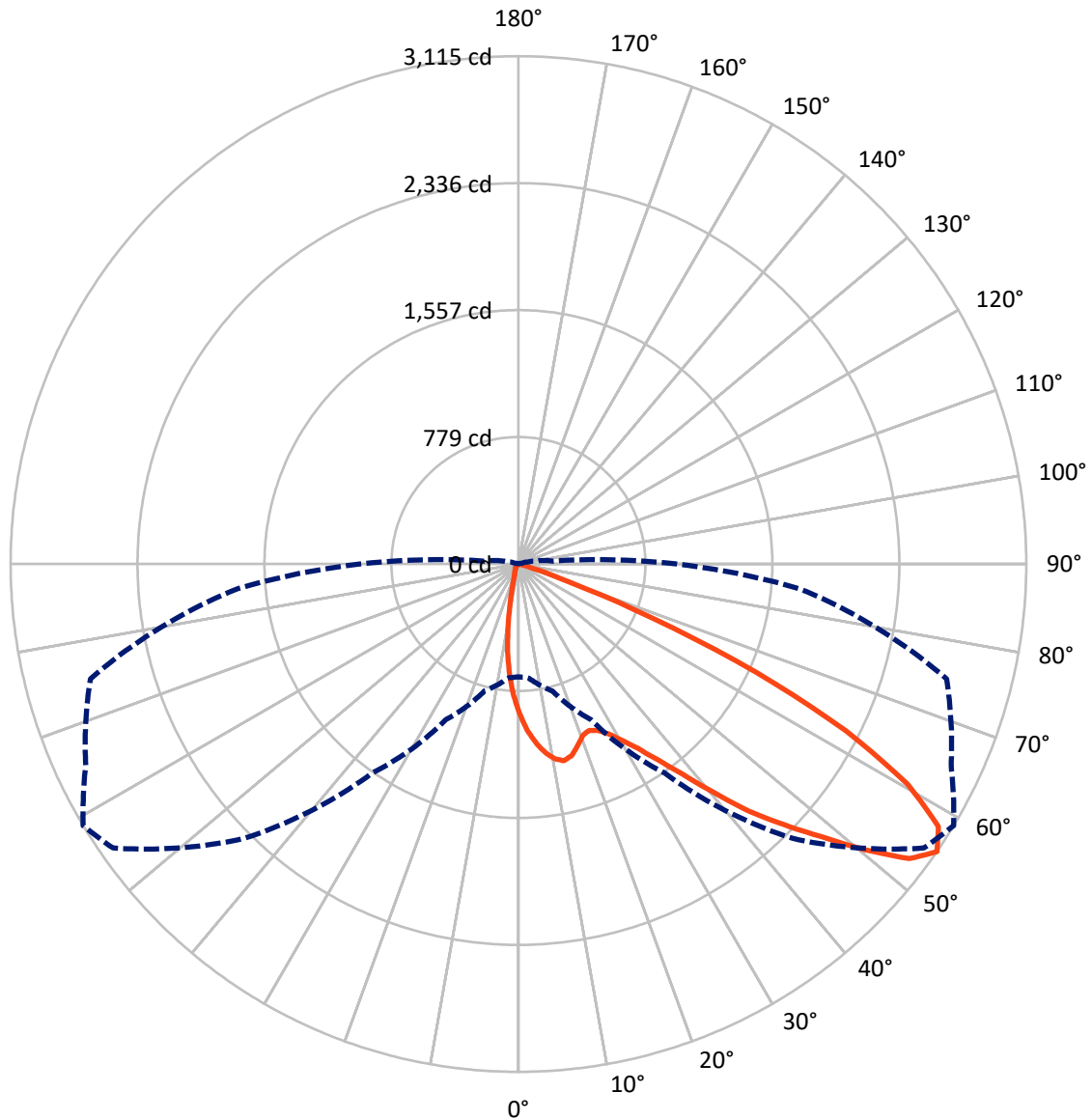
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.4 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	182.0	0.0	182.0
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	3076.7	0.0	3076.7
	% Fixture	94.4	0.0	94.4
Total	Lumens	3258.7	0.0	3258.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.8	2.4
10°-20°	184.0	5.6
20°-30°	313.0	9.6
30°-40°	538.4	16.5
40°-50°	831.2	25.5
50°-60°	835.6	25.6
60°-70°	428.5	13.1
70°-80°	46.4	1.4
80°-90°	4.9	0.1
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°	3258.7	100.0
0°-180°	3258.7	100.0



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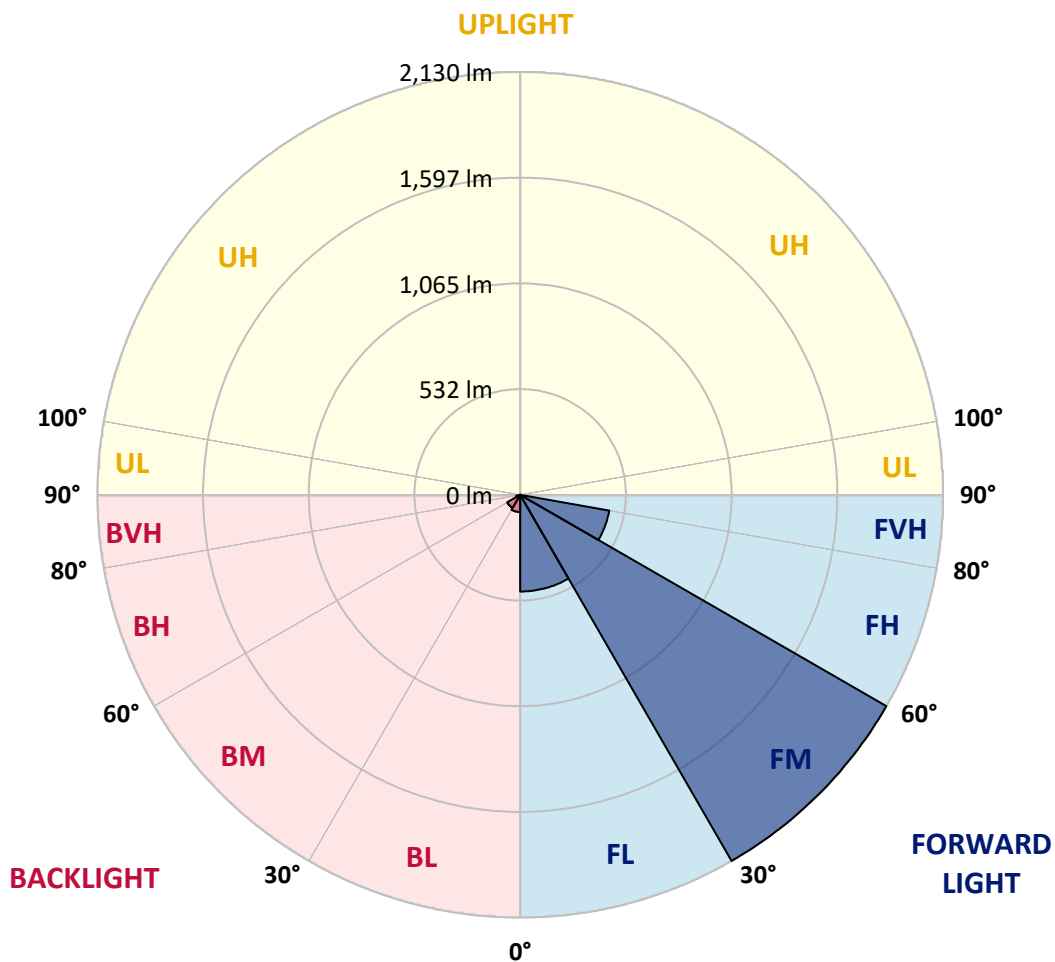
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	487.0	14.9			
FM (30°-60°)	2129.6	65.3			
FH (60°-80°)	455.4	14.0			G0/660
FVH (80°-90°)	4.8	0.1			G0/10
BL (0°-30°)	86.9	2.7	B0/110		
BM (30°-60°)	75.5	2.3	B0/220		
BH (60°-80°)	19.5	0.6	B0/110		G0/110
BVH (80°-90°)	0.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G0

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	917.4	917.4	917.4	917.4	917.4	917.4	917.4	917.4	917.4	917.4	917.4
2.5°	1085.4	1073.9	1070.4	1068.1	1057.5	1044.2	1026.2	1017.7	1000.4	972.5	938.3
5°	1184.8	1182.7	1175.0	1170.7	1159.5	1140.6	1111.8	1097.9	1070.4	1023.5	962.2
7.5°	1141.4	1154.6	1165.3	1182.9	1205.2	1204.5	1180.2	1165.8	1135.0	1073.1	988.7
10°	973.4	984.3	1001.6	1041.7	1123.7	1196.0	1224.4	1214.0	1189.4	1118.6	1014.2
12.5°	940.6	939.5	942.5	954.2	997.2	1100.2	1216.9	1237.9	1232.9	1160.4	1038.5
15°	958.1	956.8	956.4	960.4	970.7	1014.2	1160.6	1220.8	1259.5	1199.1	1059.0
17.5°	1007.2	1001.4	998.2	995.0	991.9	1002.8	1092.9	1172.9	1263.4	1232.9	1076.2
20°	1091.2	1081.6	1070.2	1051.7	1034.4	1029.1	1064.4	1123.7	1249.0	1258.7	1087.3
22.5°	1196.7	1184.5	1164.8	1131.2	1096.0	1075.6	1078.5	1108.1	1227.6	1286.7	1092.5
25°	1315.4	1299.6	1273.5	1226.7	1175.0	1138.8	1120.0	1130.4	1217.7	1319.6	1098.5
27.5°	1442.5	1425.0	1390.8	1327.1	1268.5	1219.6	1181.2	1179.9	1234.4	1362.7	1108.1
30°	1568.5	1565.8	1521.2	1453.9	1376.2	1316.7	1261.4	1254.3	1281.2	1422.3	1127.1
32.5°	1736.6	1716.4	1661.8	1592.5	1503.0	1431.5	1366.0	1349.5	1352.9	1491.8	1156.6
35°	1948.5	1926.4	1849.4	1753.9	1653.6	1569.4	1496.9	1474.5	1466.0	1605.4	1206.2
37.5°	2085.4	2085.0	2036.8	1939.5	1831.9	1739.0	1660.2	1633.9	1616.8	1742.7	1283.1
40°	2089.1	2098.1	2104.4	2103.5	2027.0	1941.4	1871.4	1838.9	1799.1	1926.1	1382.5
42.5°	1976.9	2000.2	2056.2	2151.2	2196.6	2162.5	2103.5	2071.6	2012.4	2122.6	1503.7
45°	1825.4	1841.6	1939.5	2114.4	2288.5	2381.8	2336.8	2279.6	2201.5	2327.3	1612.3
47.5°	1757.5	1760.4	1823.7	2015.8	2295.4	2561.3	2588.7	2495.8	2373.5	2492.4	1697.4
50°	1554.6	1559.9	1647.1	1844.8	2214.3	2646.2	2841.8	2753.7	2561.0	2619.5	1728.3
52.5°	1171.7	1179.0	1289.9	1563.9	1991.2	2610.0	3023.0	3001.6	2766.4	2681.5	1730.0
55°	691.4	700.9	806.7	1052.7	1566.2	2380.0	3036.4	3114.8	2928.5	2718.3	1727.3
57.5°	322.9	329.6	390.2	542.3	974.1	1881.0	2833.7	3037.2	3017.9	2737.7	1746.3
60°	171.5	173.5	188.1	234.8	440.2	1192.8	2438.1	2742.5	2936.4	2764.7	1769.6
62.5°	131.1	131.7	130.9	136.5	185.0	529.4	1842.9	2254.7	2608.2	2744.5	1743.9
65°	113.6	114.6	109.2	107.8	118.7	188.8	1094.8	1607.1	2049.4	2472.0	1568.3
67.5°	101.9	102.4	95.8	90.2	92.2	102.1	431.9	879.8	1356.6	1812.0	1136.8
70°	93.9	93.4	86.4	77.5	75.0	69.8	137.3	322.5	648.3	918.9	528.7
72.5°	83.0	83.2	79.8	68.3	62.3	48.9	63.7	94.1	193.4	250.4	123.8
75°	73.7	72.7	68.4	61.1	51.3	32.1	31.6	41.9	59.6	59.2	26.7
77.5°	53.3	52.3	53.7	50.2	39.4	20.7	15.8	20.2	24.3	23.4	7.5
80°	39.0	38.5	34.6	41.8	34.8	14.2	9.8	10.7	12.5	10.5	2.3
82.5°	26.7	26.5	24.4	23.1	19.8	8.7	6.1	6.8	8.1	6.0	1.2
85°	4.2	4.8	17.7	14.1	11.7	3.9	4.2	4.6	5.4	3.2	0.4
87.5°	0.0	0.0	8.3	7.3	2.3	1.5	2.5	2.7	2.7	1.7	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	917.4	917.4	917.4	917.4	917.4	917.4	917.4	917.4	917.4	917.4	917.4
2.5°	920.8	901.6	866.0	829.3	795.2	754.6	726.7	705.8	681.5	675.1	689.2
5°	927.1	890.8	814.3	731.0	652.7	565.9	499.7	447.1	399.7	383.4	398.1
7.5°	937.1	883.1	758.3	621.1	485.1	349.6	256.9	196.0	157.1	145.5	151.8
10°	947.1	871.9	693.4	491.2	305.0	170.2	110.7	88.5	80.2	78.5	79.4
12.5°	955.4	856.9	614.5	349.3	163.0	91.2	72.5	68.8	67.7	67.7	68.1
15°	960.4	834.2	520.8	222.1	93.9	68.8	63.3	62.1	62.1	62.3	62.7
17.5°	959.8	805.4	418.2	134.5	70.2	61.0	57.7	56.7	56.5	56.9	57.1
20°	952.7	767.7	315.3	88.6	61.1	55.5	52.3	50.6	50.4	50.8	51.1
22.5°	939.3	721.1	225.6	68.3	55.2	50.4	46.4	44.8	44.8	45.2	45.5
25°	923.0	664.2	154.2	57.9	49.8	44.8	40.9	39.6	40.0	40.9	41.1
27.5°	902.5	600.2	104.8	49.6	43.3	39.2	36.3	35.3	36.3	37.7	38.1
30°	885.0	533.5	74.8	42.9	36.7	33.8	32.1	32.1	33.5	36.0	36.5
32.5°	871.5	468.8	57.7	37.9	31.9	29.4	28.5	29.4	31.6	34.0	34.6
35°	869.8	415.6	48.9	33.8	28.5	26.0	25.6	27.3	29.4	31.4	31.7
37.5°	883.1	366.4	44.0	30.6	25.3	23.1	22.7	24.8	27.0	29.2	29.9
40°	908.2	327.7	40.6	27.5	22.9	20.4	19.7	21.2	24.1	27.1	27.9
42.5°	941.0	295.8	36.7	24.4	20.4	17.0	16.0	17.7	20.7	24.1	25.0
45°	972.1	268.3	32.5	20.9	17.1	13.1	12.7	15.0	16.5	19.8	20.6
47.5°	989.2	244.0	28.9	17.1	13.3	10.5	10.5	11.2	12.7	16.5	17.3
50°	983.5	224.6	25.0	12.7	9.2	8.1	8.1	7.8	10.2	13.3	13.9
52.5°	971.9	213.4	21.6	9.8	6.3	5.8	5.2	5.8	7.1	8.5	8.7
55°	970.2	211.6	18.0	7.8	4.4	3.9	2.9	2.9	2.9	2.7	2.3
57.5°	983.6	214.6	15.1	6.3	3.2	2.5	1.5	0.0	0.0	0.0	0.0
60°	997.5	217.9	13.1	4.4	2.3	1.4	0.2	0.0	0.0	0.0	0.0
62.5°	974.4	210.6	11.0	2.7	1.7	0.5	0.0	0.0	0.0	0.0	0.0
65°	855.9	179.3	8.7	1.9	1.2	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	608.9	120.0	5.8	1.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0
70°	277.9	50.2	3.7	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	59.4	15.6	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	12.1	11.4	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	3.9	17.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	2.3	12.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.4	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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)