

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: P200083

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200083
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-600-HSS
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 4000K, 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: 3506.7 lumens
Efficiency: N/A
Efficacy: 103.1 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

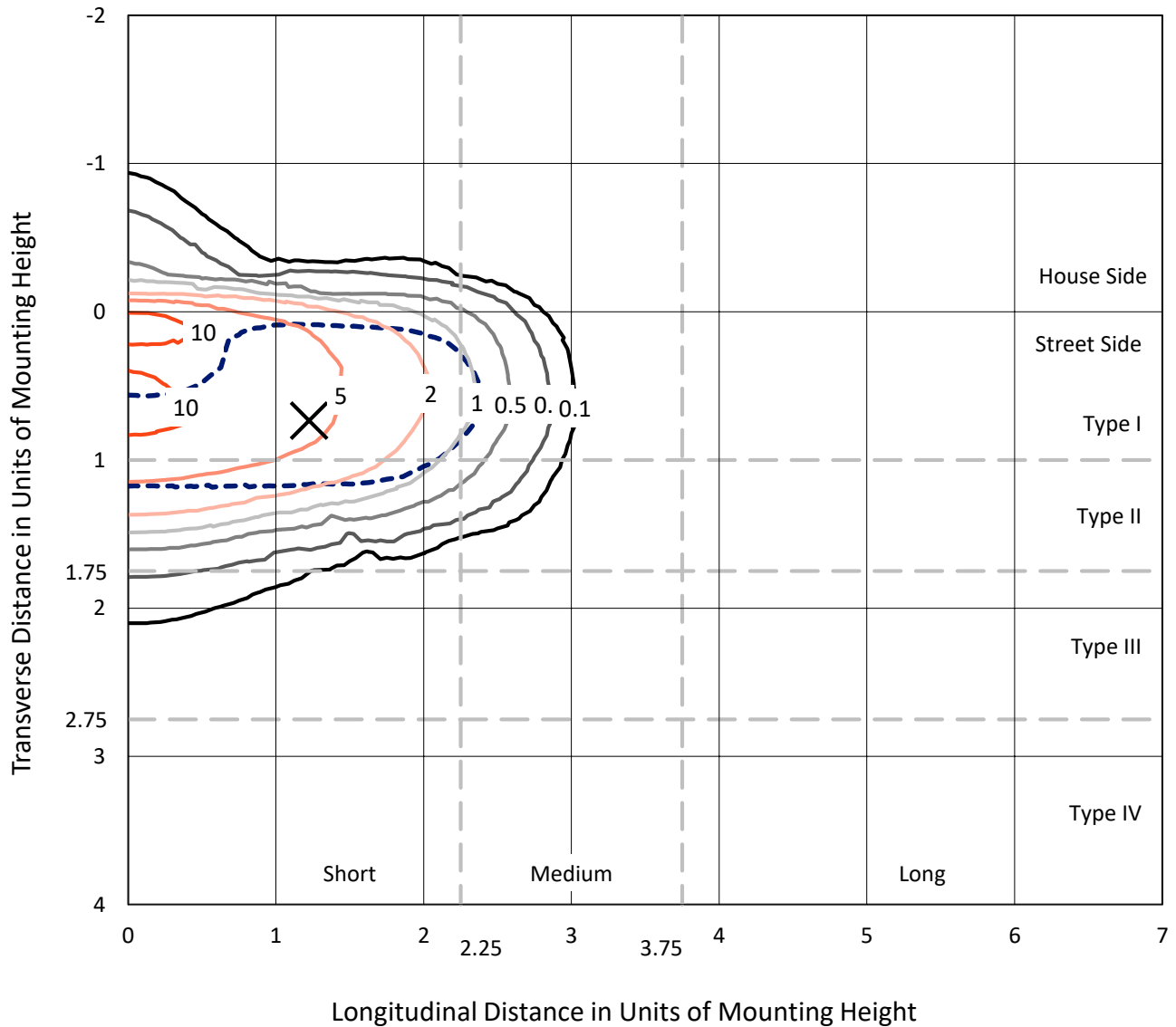
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

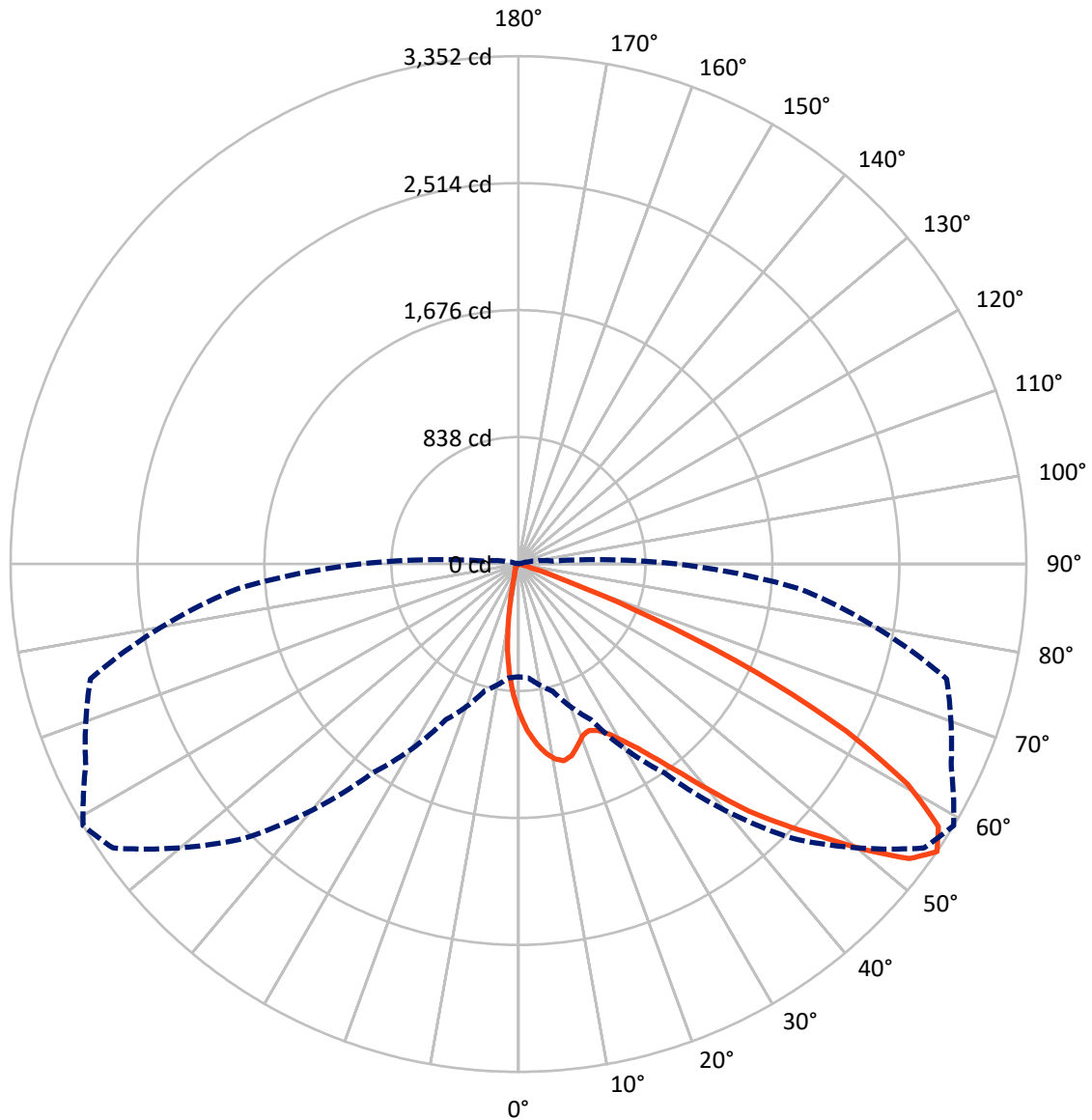
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.3 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	195.9	0.0	195.9
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	3310.8	0.0	3310.8
	% Fixture	94.4	0.0	94.4
Total	Lumens	3506.7	0.0	3506.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.7	2.4
10°-20°	198.0	5.6
20°-30°	336.9	9.6
30°-40°	579.3	16.5
40°-50°	894.4	25.5
50°-60°	899.2	25.6
60°-70°	461.1	13.1
70°-80°	50.0	1.4
80°-90°	5.2	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°	3506.7	100.0
0°-180°	3506.7	100.0

Coefficient of Utilization



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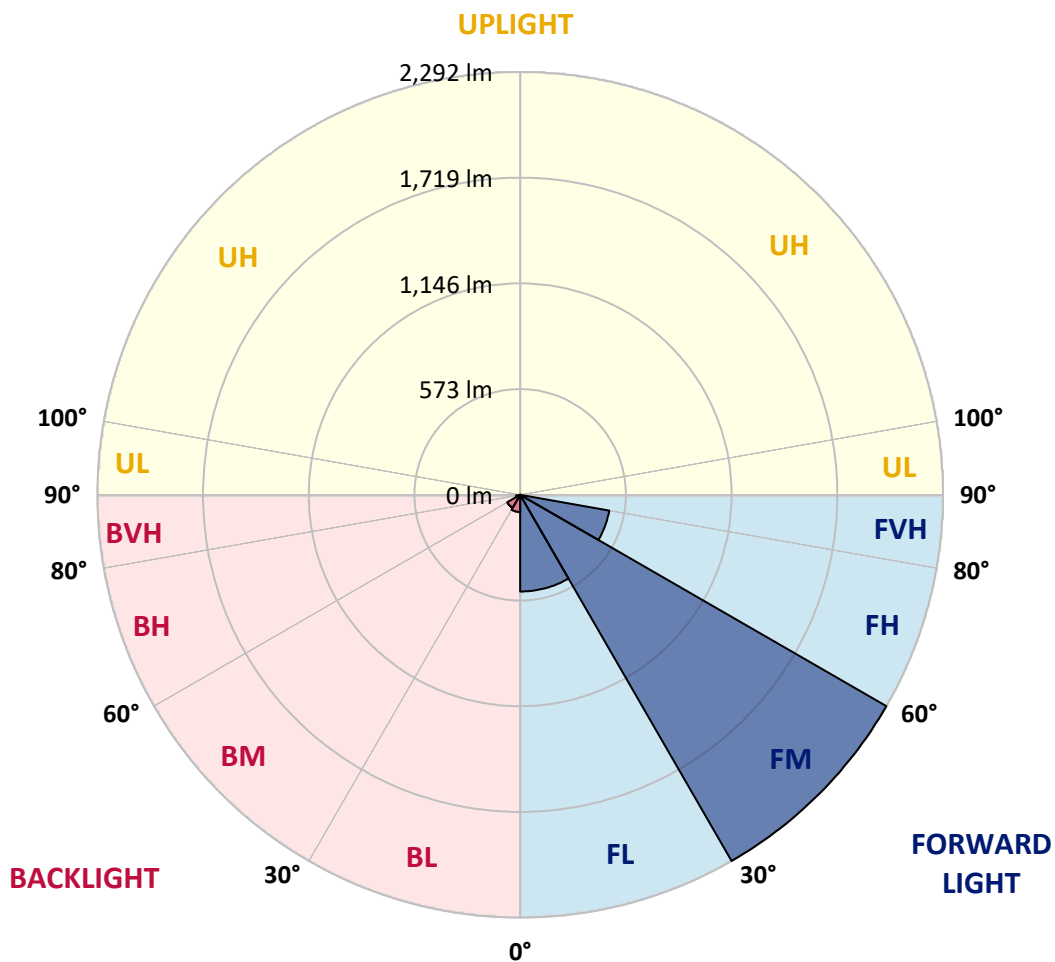
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	524.0	14.9			
FM	(30°-60°)	2291.6	65.3			
FH	(60°-80°)	490.1	14.0			G0/660
FVH	(80°-90°)	5.1	0.1			G0/10
BL	(0°-30°)	93.5	2.7	B0/110		
BM	(30°-60°)	81.3	2.3	B0/220		
BH	(60°-80°)	21.0	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°	987.1	987.1	987.1	987.1	987.1	987.1	987.1	987.1	987.1	987.1	987.1
2.5°	1168.0	1155.5	1151.8	1149.4	1137.9	1123.7	1104.3	1095.2	1076.6	1046.5	1009.7
5°	1275.0	1272.7	1264.5	1259.9	1247.7	1227.3	1196.3	1181.4	1151.8	1101.3	1035.3
7.5°	1228.2	1242.5	1253.8	1272.9	1296.9	1296.1	1270.0	1254.4	1221.4	1154.7	1063.9
10°	1047.5	1059.2	1077.8	1121.1	1209.1	1287.0	1317.6	1306.4	1279.9	1203.8	1091.4
12.5°	1012.1	1010.9	1014.3	1026.8	1073.0	1184.0	1309.6	1332.1	1326.7	1248.7	1117.5
15°	1031.0	1029.5	1029.1	1033.5	1044.6	1091.4	1248.9	1313.7	1355.3	1290.2	1139.7
17.5°	1083.7	1077.6	1074.2	1070.7	1067.4	1079.0	1176.1	1262.1	1359.6	1326.7	1158.1
20°	1174.1	1163.8	1151.6	1131.8	1113.2	1107.3	1145.4	1209.1	1344.1	1354.5	1170.1
22.5°	1287.8	1274.6	1253.4	1217.2	1179.4	1157.5	1160.5	1192.5	1320.9	1384.7	1175.7
25°	1415.5	1398.5	1370.3	1320.1	1264.5	1225.5	1205.2	1216.4	1310.4	1420.1	1182.0
27.5°	1552.3	1533.4	1496.6	1428.1	1365.0	1312.4	1271.0	1269.6	1328.4	1466.4	1192.5
30°	1687.9	1684.9	1636.9	1564.5	1480.9	1416.9	1357.4	1349.7	1378.6	1530.5	1212.9
32.5°	1868.7	1846.9	1788.2	1713.6	1617.3	1540.5	1469.9	1452.1	1455.9	1605.2	1244.5
35°	2096.7	2072.9	1990.2	1887.3	1779.5	1688.9	1610.8	1586.6	1577.5	1727.6	1297.9
37.5°	2244.0	2243.6	2191.8	2087.0	1971.3	1871.4	1786.6	1758.1	1739.7	1875.3	1380.7
40°	2248.0	2257.8	2264.6	2263.6	2181.1	2089.1	2013.8	1978.8	1935.9	2072.7	1487.7
42.5°	2127.3	2152.4	2212.6	2314.8	2363.7	2327.1	2263.6	2229.2	2165.5	2284.0	1618.1
45°	1964.3	1981.7	2087.0	2275.3	2462.7	2563.0	2514.5	2453.1	2369.1	2504.4	1735.0
47.5°	1891.2	1894.4	1962.4	2169.2	2470.0	2756.2	2785.7	2685.7	2554.1	2682.0	1826.5
50°	1672.9	1678.6	1772.5	1985.2	2382.8	2847.5	3058.0	2963.2	2755.8	2818.7	1859.8
52.5°	1260.9	1268.8	1387.9	1682.9	2142.7	2808.6	3252.9	3230.0	2976.9	2885.6	1861.7
55°	744.0	754.3	868.1	1132.8	1685.3	2561.2	3267.4	3351.8	3151.3	2925.1	1858.8
57.5°	347.5	354.7	419.9	583.6	1048.1	2024.1	3049.3	3268.2	3247.6	2946.0	1879.3
60°	184.6	186.7	202.3	252.7	473.7	1283.5	2623.7	2951.2	3159.8	2975.0	1904.3
62.5°	141.2	141.8	141.0	146.9	199.1	569.7	1983.1	2426.2	2806.6	2953.3	1876.6
65°	122.3	123.4	117.5	116.1	127.7	203.3	1178.1	1729.4	2205.4	2660.1	1687.7
67.5°	109.7	110.1	103.0	97.1	99.1	109.9	464.8	946.7	1459.8	1949.8	1223.2
70°	101.0	100.6	92.9	83.4	80.7	75.1	147.7	347.1	697.7	988.8	568.9
72.5°	89.4	89.6	85.9	73.4	67.0	52.6	68.5	101.2	208.2	269.4	133.3
75°	79.3	78.3	73.7	65.8	55.2	34.6	34.0	45.1	64.1	63.7	28.7
77.5°	57.3	56.3	57.7	54.0	42.5	22.3	17.0	21.7	26.1	25.3	8.1
80°	42.0	41.4	37.2	44.9	37.4	15.3	10.5	11.6	13.4	11.4	2.5
82.5°	28.7	28.5	26.3	24.9	21.3	9.3	6.6	7.3	8.7	6.4	1.2
85°	4.6	5.2	19.0	15.1	12.6	4.1	4.6	5.0	5.8	3.5	0.4
87.5°	0.0	0.0	8.9	7.9	2.5	1.6	2.7	2.9	2.9	1.8	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°	987.1	987.1	987.1	987.1	987.1	987.1	987.1	987.1	987.1	987.1	987.1
2.5°	990.8	970.2	931.9	892.3	855.7	812.0	782.0	759.4	733.5	726.4	741.6
5°	997.7	958.6	876.2	786.5	702.4	609.1	537.7	481.1	430.0	412.7	428.4
7.5°	1008.4	950.3	816.0	668.4	521.9	376.2	276.5	210.8	169.1	156.6	163.3
10°	1019.2	938.3	746.2	528.6	328.2	183.1	119.2	95.2	86.3	84.4	85.4
12.5°	1028.1	922.1	661.1	375.8	175.5	98.1	78.1	74.1	72.8	72.8	73.2
15°	1033.5	897.7	560.4	239.1	101.0	74.1	68.1	66.8	66.8	67.0	67.4
17.5°	1032.9	866.6	450.1	144.6	75.5	65.6	62.1	61.1	60.9	61.3	61.5
20°	1025.2	826.1	339.4	95.4	65.8	59.8	56.3	54.4	54.2	54.6	55.0
22.5°	1010.7	776.0	242.7	73.4	59.4	54.2	49.9	48.2	48.2	48.6	49.0
25°	993.1	714.7	165.9	62.3	53.6	48.2	44.1	42.7	43.1	44.1	44.3
27.5°	971.2	645.9	112.8	53.4	46.5	42.2	39.1	38.1	39.1	40.6	41.0
30°	952.4	574.1	80.5	46.1	39.5	36.4	34.6	34.6	36.0	38.7	39.3
32.5°	937.8	504.5	62.1	40.8	34.4	31.7	30.6	31.7	34.0	36.6	37.2
35°	936.0	447.2	52.6	36.4	30.6	27.9	27.5	29.4	31.7	33.8	34.2
37.5°	950.3	394.2	47.4	32.9	27.3	24.9	24.4	26.7	28.9	31.4	32.1
40°	977.4	352.6	43.7	29.6	24.7	21.9	21.1	22.8	25.9	29.2	30.0
42.5°	1012.6	318.2	39.5	26.3	21.9	18.2	17.2	19.0	22.3	25.9	26.9
45°	1046.1	288.7	35.0	22.6	18.4	14.1	13.7	16.2	17.8	21.3	22.1
47.5°	1064.5	262.6	31.0	18.4	14.3	11.4	11.4	12.0	13.7	17.8	18.6
50°	1058.3	241.7	26.9	13.7	9.9	8.7	8.7	8.5	10.9	14.3	14.9
52.5°	1045.9	229.8	23.2	10.5	6.9	6.2	5.6	6.2	7.7	9.1	9.3
55°	1044.0	227.6	19.4	8.5	4.8	4.1	3.1	3.1	3.1	2.9	2.5
57.5°	1058.5	231.0	16.4	6.9	3.5	2.7	1.6	0.0	0.0	0.0	0.0
60°	1073.4	234.5	14.1	4.8	2.5	1.4	0.2	0.0	0.0	0.0	0.0
62.5°	1048.6	226.6	11.8	2.9	1.8	0.6	0.0	0.0	0.0	0.0	0.0
65°	921.1	192.8	9.3	2.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	655.2	129.1	6.2	1.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0
70°	299.0	54.0	3.9	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	63.9	16.8	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	13.0	12.2	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	4.1	19.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	2.5	13.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.4	2.0	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)