

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: P526226

Luminaire Tested: **GALN-SA1A-830-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526226
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1A-830-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3318 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

Input Watts (W): 33
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



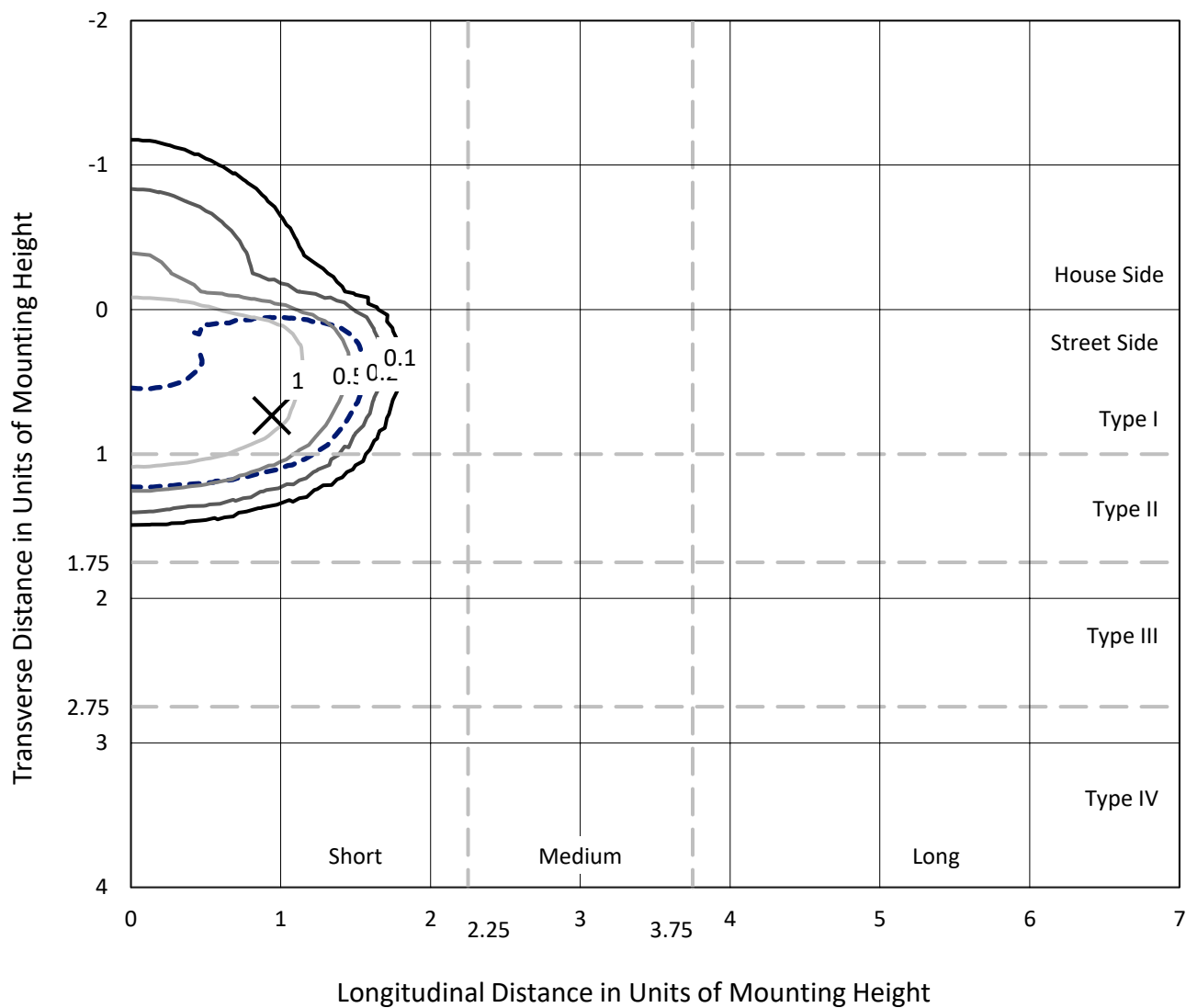
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

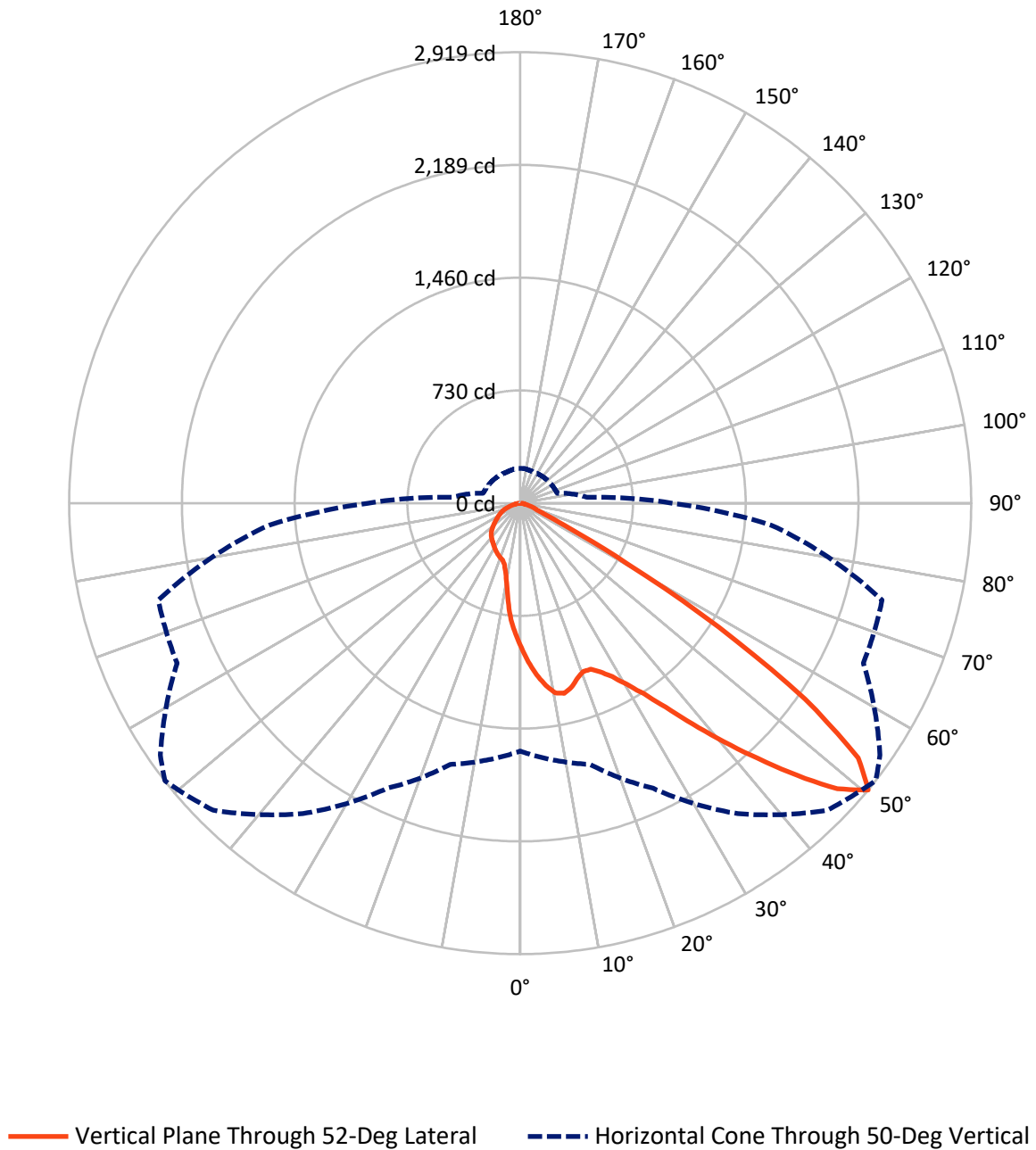
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	623.7	0.0	623.7
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	2694.3	0.0	2694.3
	% Fixture	81.2	0.0	81.2
Total	Lumens	3318.0	0.0	3318.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.2	2.6
10°-20°	231.1	7.0
20°-30°	389.2	11.7
30°-40°	653.1	19.7
40°-50°	999.1	30.1
50°-60°	728.4	22.0
60°-70°	162.1	4.9
70°-80°	58.5	1.8
80°-90°	10.4	0.3
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°	3318.0	100.0
0°-180°	3318.0	100.0

Coefficient of Utilization



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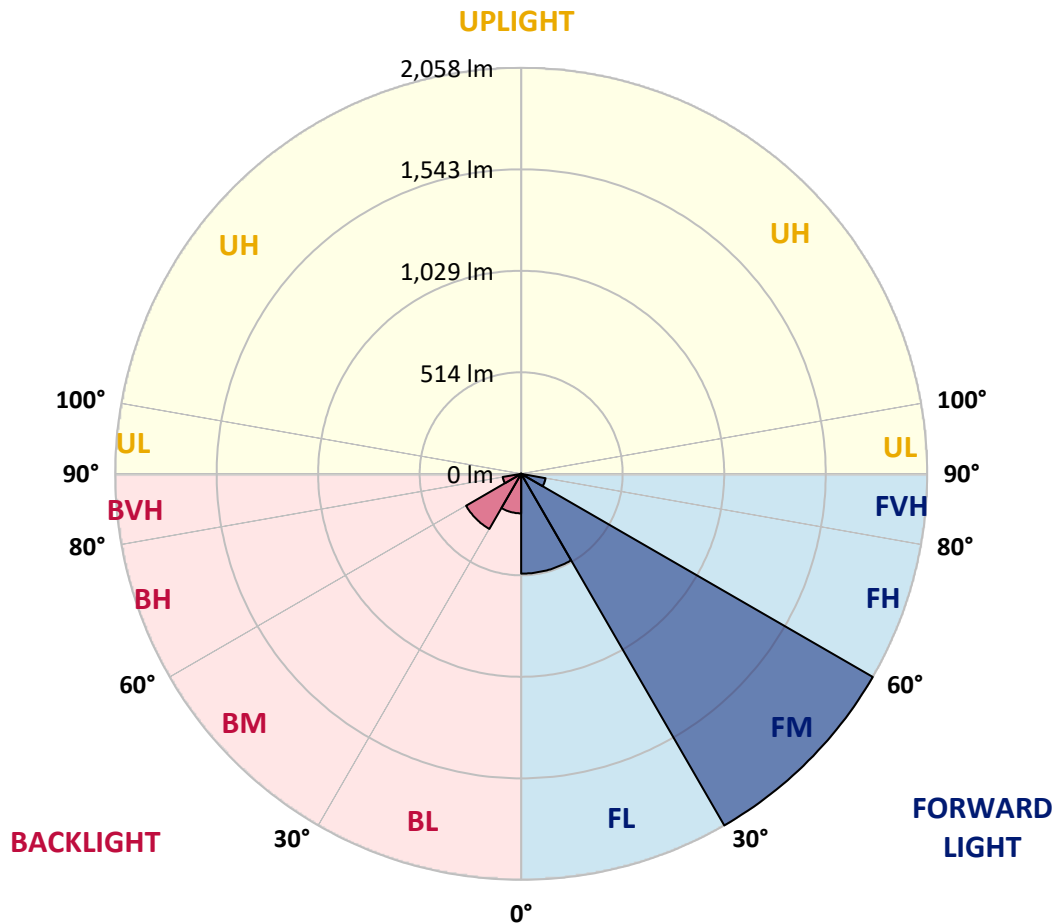
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	506.1	15.3			
FM	(30°-60°)	2058.0	62.0			
FH	(60°-80°)	125.6	3.8			G0/660
FVH	(80°-90°)	4.6	0.1			G0/10
BL	(0°-30°)	200.4	6.0	B1/500		
BM	(30°-60°)	322.6	9.7	B1/1000		
BH	(60°-80°)	95.0	2.9	B0/110		G0/110
BVH	(80°-90°)	5.7	0.2			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	935.3	935.3	935.3	935.3	935.3	935.3	935.3	935.3	935.3	935.3	935.3
2.5°	1101.2	1080.0	1082.4	1067.2	1050.9	1046.1	1029.3	1013.3	1001.3	975.7	952.1
5°	1203.6	1197.2	1187.6	1175.6	1163.2	1132.8	1115.6	1095.6	1051.7	1012.1	972.9
7.5°	1218.4	1217.2	1222.4	1222.4	1226.8	1215.2	1190.8	1176.8	1130.0	1065.6	992.9
10°	1114.4	1118.0	1143.2	1176.0	1221.6	1253.2	1249.2	1245.6	1194.4	1106.4	1016.5
12.5°	1031.7	1023.7	1038.5	1066.4	1134.8	1211.2	1262.8	1263.2	1250.0	1171.6	1033.7
15°	984.9	990.5	994.5	1007.7	1059.2	1147.6	1238.4	1265.2	1323.2	1217.6	1060.8
17.5°	1014.9	996.1	995.3	998.5	1024.9	1091.2	1193.2	1239.2	1363.1	1276.8	1094.4
20°	1054.0	1053.6	1042.5	1038.5	1038.1	1097.2	1163.6	1226.0	1384.3	1353.6	1128.4
22.5°	1122.8	1122.8	1104.4	1095.6	1076.8	1125.2	1167.6	1210.0	1419.5	1406.3	1144.8
25°	1238.0	1219.2	1187.6	1166.0	1155.2	1172.4	1210.0	1248.0	1450.3	1462.3	1178.8
27.5°	1344.4	1314.8	1299.2	1262.0	1247.6	1237.6	1272.0	1310.4	1486.3	1549.5	1197.2
30°	1465.1	1459.9	1431.9	1383.9	1348.4	1330.0	1361.5	1399.5	1552.3	1638.7	1239.6
32.5°	1681.0	1633.9	1595.9	1537.1	1479.1	1439.9	1471.1	1496.3	1661.8	1731.8	1286.0
35°	1914.2	1899.0	1833.4	1727.4	1638.7	1603.5	1621.9	1640.7	1789.4	1874.2	1363.9
37.5°	2143.3	2122.5	2068.5	1979.3	1871.4	1799.8	1813.0	1835.0	1932.6	2066.1	1459.1
40°	2308.0	2282.4	2255.3	2242.1	2134.9	2036.9	2029.3	2034.9	2126.1	2246.1	1564.7
42.5°	2320.0	2351.6	2360.0	2413.2	2388.0	2307.6	2260.8	2262.0	2310.8	2424.0	1671.4
45°	2294.8	2265.6	2327.6	2472.8	2556.0	2593.5	2514.8	2504.8	2425.2	2527.2	1724.6
47.5°	2030.5	2038.5	2143.3	2372.8	2613.1	2781.1	2762.7	2729.5	2486.4	2523.6	1716.2
50°	1605.1	1653.5	1750.6	2036.5	2453.2	2810.7	2919.0	2842.3	2450.0	2424.4	1630.7
52.5°	1068.8	1088.8	1152.8	1521.9	1972.5	2512.4	2739.1	2756.7	2416.4	2294.4	1522.3
55°	475.8	474.2	564.2	794.9	1237.6	1911.8	2238.1	2345.2	2287.2	2162.1	1416.7
57.5°	201.5	208.3	245.1	343.5	608.6	1153.6	1516.3	1610.3	1759.0	1775.4	1086.8
60°	136.4	137.2	147.2	171.9	254.7	541.8	795.3	908.1	1014.5	1007.3	576.6
62.5°	107.2	110.0	117.6	127.6	151.1	245.9	355.9	418.7	425.5	357.9	218.7
65°	91.6	92.0	99.6	108.0	118.4	143.2	171.5	174.7	176.7	170.3	160.7
67.5°	75.6	76.4	82.4	92.0	101.6	109.6	117.6	121.6	130.8	148.8	146.4
70°	60.0	61.2	66.4	74.4	83.2	88.0	98.0	101.6	110.0	124.0	129.6
72.5°	45.6	46.0	50.4	56.0	64.0	68.8	77.2	81.2	86.8	98.8	104.0
75°	32.8	34.0	37.2	40.0	41.2	44.4	52.4	56.8	64.8	70.0	70.4
77.5°	17.2	18.0	18.8	18.8	22.8	28.8	34.0	36.4	42.0	46.0	44.0
80°	6.8	7.2	9.2	12.4	16.0	20.8	24.4	25.6	30.4	32.8	34.0
82.5°	4.0	4.4	6.0	8.8	11.6	14.8	17.6	18.8	22.0	24.8	25.6
85°	2.0	2.4	3.6	5.6	7.6	9.2	8.8	8.4	8.4	8.0	8.4
87.5°	0.8	0.8	1.2	1.2	1.2	1.6	2.0	2.0	2.0	2.4	2.4
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°	935.3	935.3	935.3	935.3	935.3	935.3	935.3	935.3	935.3	935.3	935.3
2.5°	936.5	920.5	905.7	878.5	848.9	840.5	806.1	793.7	784.9	774.5	771.3
5°	941.3	920.1	872.5	817.7	774.1	718.2	681.4	641.8	613.0	605.8	603.8
7.5°	951.3	914.9	832.9	750.2	661.0	585.0	527.0	495.8	468.2	466.6	463.8
10°	962.5	899.3	789.7	659.8	545.8	475.4	440.7	427.1	420.3	418.7	417.9
12.5°	971.7	896.1	741.4	571.8	464.2	421.9	411.5	410.3	413.1	413.9	415.5
15°	975.7	883.3	683.0	493.0	413.5	397.9	402.3	407.1	409.1	414.3	410.3
17.5°	983.3	866.9	611.0	430.7	385.1	387.9	395.5	401.1	404.3	407.9	402.7
20°	987.3	852.1	543.4	393.5	375.1	380.3	390.7	395.1	399.1	400.7	394.7
22.5°	983.7	821.7	483.8	363.5	365.5	372.3	381.5	386.3	383.9	377.5	373.9
25°	974.1	778.9	421.9	344.3	351.9	363.9	371.1	367.5	363.1	359.5	358.3
27.5°	973.7	726.6	377.1	326.7	340.3	356.7	354.3	351.1	353.1	350.3	347.1
30°	975.7	675.8	340.3	316.7	331.9	339.9	342.7	339.5	341.9	336.7	338.3
32.5°	965.3	626.2	316.3	305.1	321.9	321.5	330.7	333.1	327.5	316.7	318.3
35°	969.7	586.2	295.9	299.9	310.7	310.7	317.9	315.1	300.3	293.9	295.5
37.5°	1000.1	547.0	285.9	292.7	299.9	303.1	300.7	288.7	285.1	285.1	285.9
40°	1028.9	513.4	279.9	291.1	289.9	291.9	274.3	275.5	275.5	275.9	273.9
42.5°	1054.4	490.6	275.1	281.5	283.5	273.1	262.3	261.1	263.9	263.5	261.9
45°	1063.6	471.8	268.3	270.7	272.3	255.1	249.9	247.5	250.7	251.9	253.5
47.5°	1028.5	456.2	260.7	255.9	252.7	241.5	234.7	230.3	234.3	241.1	242.7
50°	983.3	435.9	248.7	239.5	232.7	227.9	223.1	218.7	221.5	226.3	225.1
52.5°	916.5	403.9	233.5	223.9	212.3	213.5	209.1	206.7	208.3	208.3	207.1
55°	821.3	331.9	207.9	201.1	191.5	194.7	195.5	192.3	189.1	191.9	189.5
57.5°	560.6	234.3	185.5	185.5	175.9	180.3	179.9	172.3	164.7	165.5	163.9
60°	324.3	186.7	171.1	169.5	159.5	163.1	163.9	158.7	147.2	148.0	146.4
62.5°	184.3	159.5	149.6	147.2	145.2	148.4	148.4	141.6	131.6	132.4	130.8
65°	156.7	148.0	133.6	133.2	132.4	133.2	130.0	122.8	114.0	110.4	110.8
67.5°	142.4	136.8	122.8	119.2	116.8	116.4	110.4	103.6	99.6	96.4	96.0
70°	124.8	120.4	110.0	105.2	102.8	97.2	91.2	86.8	81.2	79.6	81.2
72.5°	98.8	98.4	94.4	89.2	84.0	79.6	74.4	68.4	63.2	62.0	59.2
75°	68.4	69.2	70.0	69.2	64.8	59.2	53.2	48.4	42.0	38.4	37.6
77.5°	44.8	46.0	47.2	45.6	42.8	37.6	33.6	27.6	22.8	20.0	19.6
80°	32.8	34.4	35.2	34.0	30.8	26.8	22.4	17.6	14.0	11.6	11.6
82.5°	25.2	26.8	27.6	25.6	22.4	19.2	16.0	12.4	9.6	7.6	7.2
85°	8.8	8.4	10.0	10.4	12.4	11.6	9.6	7.2	5.6	4.0	3.6
87.5°	2.4	2.4	2.8	2.8	2.4	2.0	2.0	2.0	1.6	1.2	1.2
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)