

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: P647710

Luminaire Tested: **GALN-SA1A-835-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647710
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1A-835-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3070.9 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

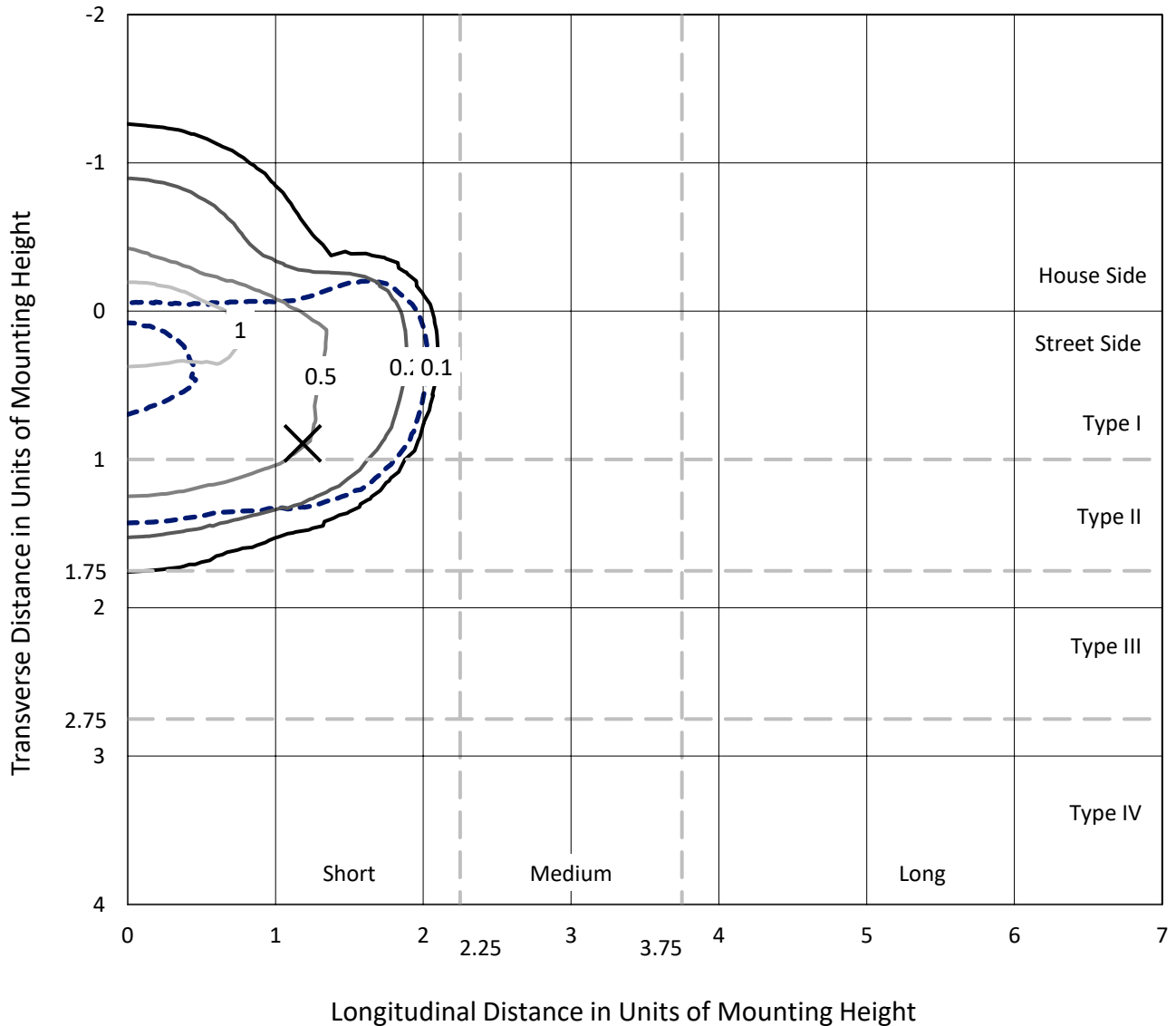
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

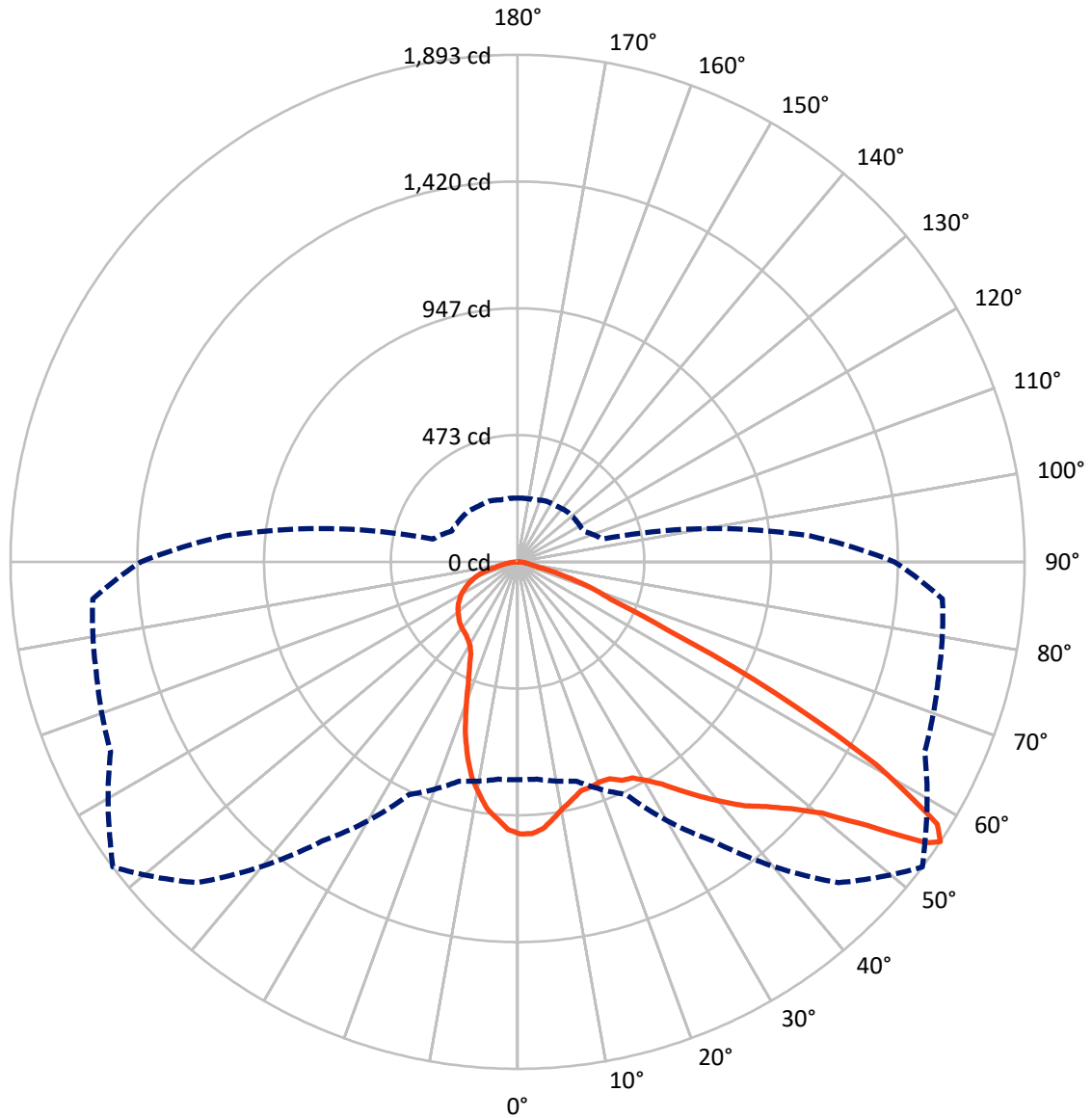
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	896.2	0.0	896.2
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	2174.8	0.0	2174.8
	% Fixture	70.8	0.0	70.8
Total	Lumens	3070.9	0.0	3070.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.9	2.9
10°-20°	224.6	7.3
20°-30°	331.3	10.8
30°-40°	473.3	15.4
40°-50°	651.4	21.2
50°-60°	769.8	25.1
60°-70°	410.3	13.4
70°-80°	104.1	3.4
80°-90°	16.2	0.5
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°	3070.9	100.0
0°-180°	3070.9	100.0

Coefficient of Utilization

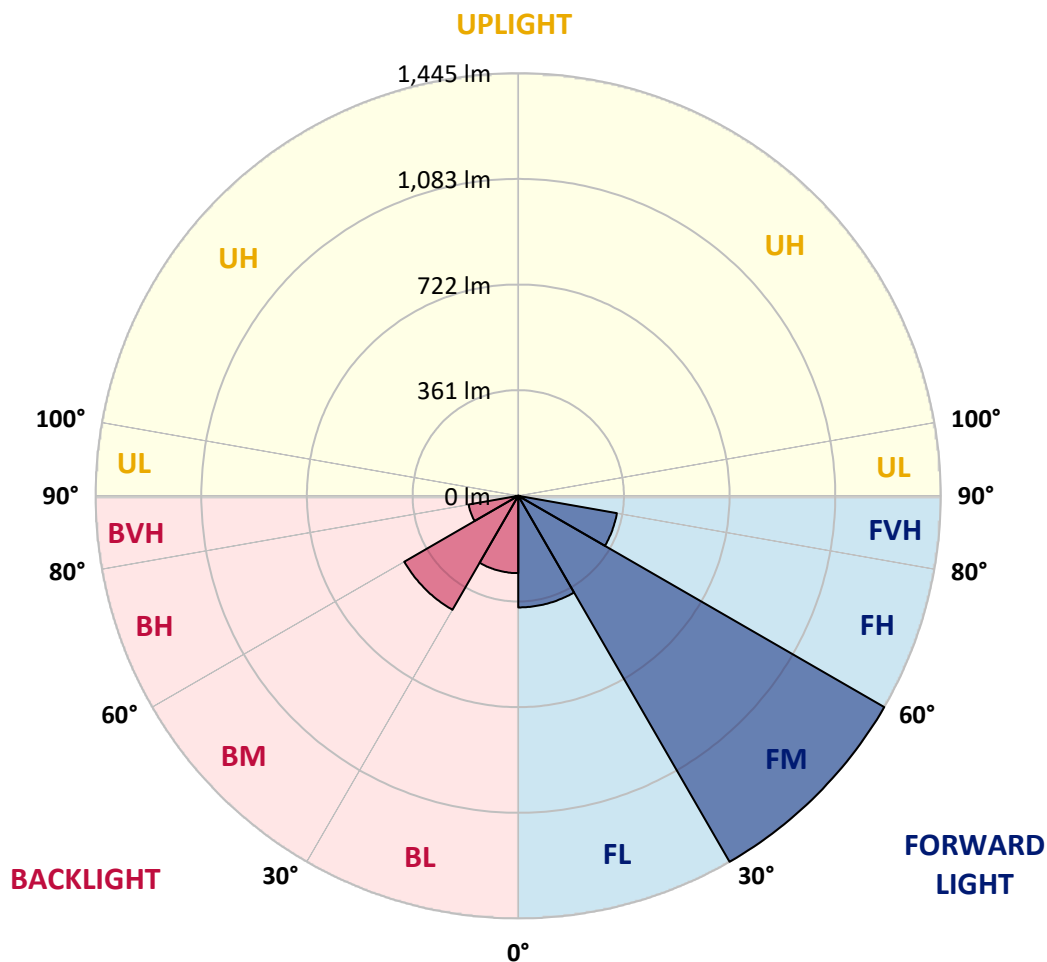


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	381.5	12.4			
FM (30°-60°)	1444.5	47.0			
FH (60°-80°)	342.2	11.1			G0/660
FVH (80°-90°)	6.5	0.2			G0/10
BL (0°-30°)	264.3	8.6	B1/500		
BM (30°-60°)	450.0	14.7	B1/1000		
BH (60°-80°)	172.1	5.6	B1/500		G1/500
BVH (80°-90°)	9.7	0.3			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	1016.0	1016.0	1016.0	1016.0	1016.0	1016.0	1016.0	1016.0	1016.0	1016.0	1016.0
2.5°	1003.4	994.7	999.8	997.9	1014.0	1018.8	1016.4	1018.4	1027.4	1023.1	1014.0
5°	937.6	949.8	952.1	958.1	967.6	986.0	1000.6	1004.6	1008.9	1029.0	1027.0
7.5°	877.7	886.0	881.7	899.0	919.5	949.4	967.2	970.3	1010.1	1021.1	1029.4
10°	839.9	831.6	851.3	856.1	879.3	913.5	934.8	947.8	984.1	1027.8	1032.9
12.5°	804.8	802.1	813.9	827.3	853.3	888.7	910.4	915.6	971.5	1017.6	1041.6
15°	778.9	775.6	787.5	797.3	827.7	859.2	886.7	901.3	957.7	1011.6	1034.1
17.5°	758.3	757.9	764.7	782.4	813.5	839.9	884.4	885.2	950.6	1020.7	1040.4
20°	757.2	756.8	757.9	777.7	806.0	838.3	877.0	884.0	950.6	1014.4	1040.8
22.5°	767.0	760.7	767.8	780.4	800.9	841.1	879.7	895.4	973.4	1045.5	1058.5
25°	782.8	784.3	788.2	792.6	804.5	847.4	904.1	917.1	1000.2	1072.3	1083.0
27.5°	811.5	810.7	812.3	814.7	824.9	853.3	913.9	947.4	1056.2	1120.0	1109.4
30°	853.7	850.9	857.2	865.5	856.1	872.2	946.6	971.9	1108.2	1168.1	1138.9
32.5°	891.9	902.1	913.9	917.5	906.1	909.2	989.9	1015.6	1151.5	1227.1	1175.1
35°	939.5	947.8	963.6	974.6	972.6	963.2	1049.1	1083.0	1214.1	1270.5	1213.3
37.5°	986.0	995.9	1021.9	1054.6	1036.5	1032.2	1112.1	1140.0	1233.5	1293.8	1241.3
40°	1060.9	1060.5	1105.4	1122.4	1138.5	1131.0	1177.5	1186.9	1243.7	1288.6	1242.1
42.5°	1148.7	1143.3	1188.9	1215.3	1236.2	1237.0	1245.7	1242.5	1248.4	1262.6	1233.9
45°	1232.3	1244.1	1290.1	1337.4	1358.3	1360.7	1303.1	1297.3	1256.7	1255.1	1218.1
47.5°	1334.3	1337.1	1374.9	1437.1	1485.6	1469.0	1377.6	1364.6	1292.9	1305.1	1244.5
50°	1340.2	1360.7	1394.6	1467.8	1616.7	1612.4	1474.2	1449.7	1351.2	1376.0	1318.1
52.5°	1216.5	1211.8	1251.9	1371.7	1606.9	1755.0	1634.1	1575.8	1476.5	1457.6	1437.5
55°	926.9	938.0	973.4	1094.4	1395.4	1757.0	1852.0	1804.3	1610.5	1578.1	1554.9
56°	813.1	814.7	848.1	958.5	1273.2	1694.3	1893.3	1854.7	1677.0	1627.8	1592.3
57.5°	674.0	665.0	682.3	742.6	1074.7	1562.0	1848.0	1885.8	1755.0	1681.3	1632.1
60°	530.6	528.7	521.6	532.6	679.2	1176.7	1538.4	1623.5	1747.1	1630.9	1563.2
62.5°	433.3	423.5	437.7	453.4	471.9	730.0	1081.0	1131.0	1387.1	1302.0	1174.3
65°	336.1	331.3	349.1	400.3	411.3	463.7	615.8	654.4	819.0	804.5	708.3
67.5°	231.2	232.0	247.4	325.4	381.3	376.6	377.0	397.1	427.4	317.5	276.6
70°	146.6	146.2	154.4	209.6	306.9	310.1	294.3	288.4	273.4	165.4	175.3
72.5°	94.1	91.4	95.8	115.8	158.8	183.6	189.1	192.6	158.4	130.0	141.0
75°	53.2	50.4	48.9	53.9	62.6	72.5	79.6	81.9	91.8	98.5	104.4
77.5°	16.1	14.6	17.7	23.6	31.1	41.7	50.8	52.4	61.9	69.8	75.6
80°	7.1	7.9	11.0	15.7	22.1	29.5	35.9	38.2	44.6	50.4	52.0
82.5°	4.3	4.7	7.5	10.6	15.3	20.9	25.6	26.4	32.7	37.4	38.6
85°	1.6	2.0	3.9	6.3	9.9	13.4	13.4	14.6	13.4	13.4	14.6
87.5°	0.0	0.0	0.4	0.8	0.8	1.2	1.6	1.6	2.0	2.3	2.7
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°	1016.0	1016.0	1016.0	1016.0	1016.0	1016.0	1016.0	1016.0	1016.0	1016.0	1016.0
2.5°	1018.8	1016.8	1013.6	1002.2	1001.0	997.5	977.7	974.6	977.7	968.3	969.1
5°	1016.8	1022.7	999.0	987.6	966.4	951.0	933.3	924.2	908.0	897.8	909.2
7.5°	1025.4	1023.1	993.5	968.7	936.8	897.8	866.7	848.9	820.6	812.7	818.6
10°	1022.3	1009.7	975.0	942.3	882.0	847.8	797.3	748.5	721.7	707.9	706.0
12.5°	1018.0	1014.4	956.5	900.1	836.7	764.7	693.7	647.6	603.9	585.0	587.8
15°	1023.1	993.2	921.8	850.5	766.2	671.7	595.2	535.7	505.4	493.2	493.2
17.5°	1020.7	982.9	905.3	795.0	688.3	576.4	492.4	456.6	444.0	444.0	447.5
20°	1021.9	989.6	871.8	739.5	596.0	485.3	424.3	411.3	416.8	418.7	420.7
22.5°	1028.6	967.6	839.1	678.4	510.5	415.2	385.3	385.7	395.5	406.1	404.2
25°	1036.8	958.9	799.3	617.7	445.1	380.9	371.5	370.3	377.8	383.3	384.1
27.5°	1029.8	943.9	758.7	542.1	391.6	358.1	356.1	356.9	359.2	370.3	366.8
30°	1053.0	948.2	707.9	478.6	362.1	350.6	348.3	347.1	350.6	353.8	351.0
32.5°	1081.8	932.9	670.1	417.6	347.5	345.1	340.4	338.8	340.8	337.6	339.2
35°	1094.4	930.1	620.8	373.9	336.1	334.0	331.3	330.9	331.3	328.5	326.2
37.5°	1101.4	943.1	564.5	353.8	328.9	330.9	324.6	323.8	316.7	318.3	319.5
40°	1113.7	923.0	518.8	334.5	324.6	320.6	315.2	314.0	309.3	306.5	309.3
42.5°	1096.0	917.1	473.9	326.2	318.3	314.0	310.1	303.3	301.8	299.4	297.9
45°	1081.8	883.2	433.7	315.9	310.9	308.4	301.0	293.9	288.0	290.3	286.8
47.5°	1092.4	871.4	393.9	307.2	300.6	297.9	290.3	284.9	278.9	276.2	275.4
50°	1135.0	893.5	360.5	301.0	291.9	290.3	280.5	274.2	268.6	266.7	267.5
52.5°	1236.6	953.8	337.6	288.0	283.6	276.6	271.0	263.2	259.6	253.3	257.2
55°	1365.4	1051.8	331.7	275.8	273.4	267.1	259.6	253.7	247.0	241.9	240.7
56°	1406.7	1098.7	327.0	271.0	267.1	263.6	253.7	250.2	239.5	238.3	237.6
57.5°	1440.3	1140.0	327.8	262.0	258.0	254.9	249.0	240.3	233.2	228.9	230.8
60°	1364.6	1067.2	312.8	248.2	247.4	241.5	233.2	229.3	220.6	215.5	214.3
62.5°	1014.4	724.4	253.7	230.4	230.0	223.8	214.3	210.0	208.4	201.3	201.3
65°	584.2	454.2	219.4	215.9	212.7	206.4	197.0	193.4	189.5	187.1	185.2
67.5°	249.4	235.6	199.4	199.0	195.4	187.5	178.1	172.6	167.4	162.7	165.1
70°	180.8	183.6	180.0	178.1	173.7	163.9	155.6	148.9	141.0	137.9	140.2
72.5°	143.4	149.3	154.4	154.8	149.7	138.3	129.2	120.2	111.5	107.1	109.2
75°	108.8	112.7	117.8	118.9	111.5	103.6	95.0	85.5	78.8	73.7	74.5
77.5°	78.4	77.6	82.4	81.5	78.0	72.5	64.6	55.9	48.5	43.7	44.1
80°	53.6	54.7	57.6	57.2	52.8	49.3	43.3	36.3	30.7	26.8	26.0
82.5°	37.4	39.4	41.7	39.8	36.3	32.7	28.3	23.3	18.9	15.7	15.0
85°	13.4	15.3	17.7	18.9	20.1	19.3	16.1	13.0	9.5	7.9	7.5
87.5°	2.7	3.1	3.5	3.5	3.5	3.1	2.7	2.7	2.3	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)