

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: P450243

Luminaire Tested: **GALN-SA1A-730-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450243
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1A-730-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4313 lumens
Efficiency: N/A
Efficacy: 130.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G1

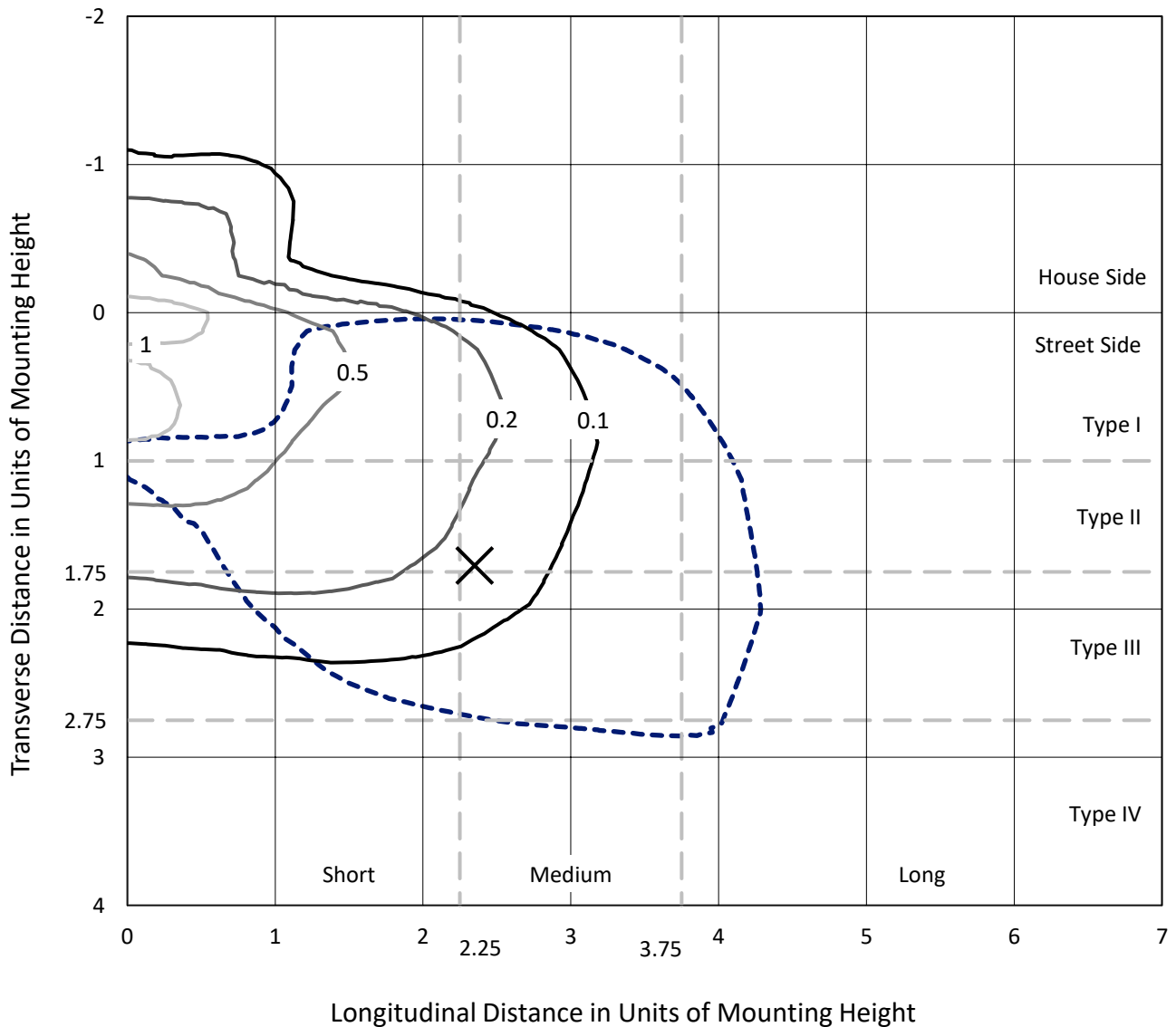
Input Watts (W): 33
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

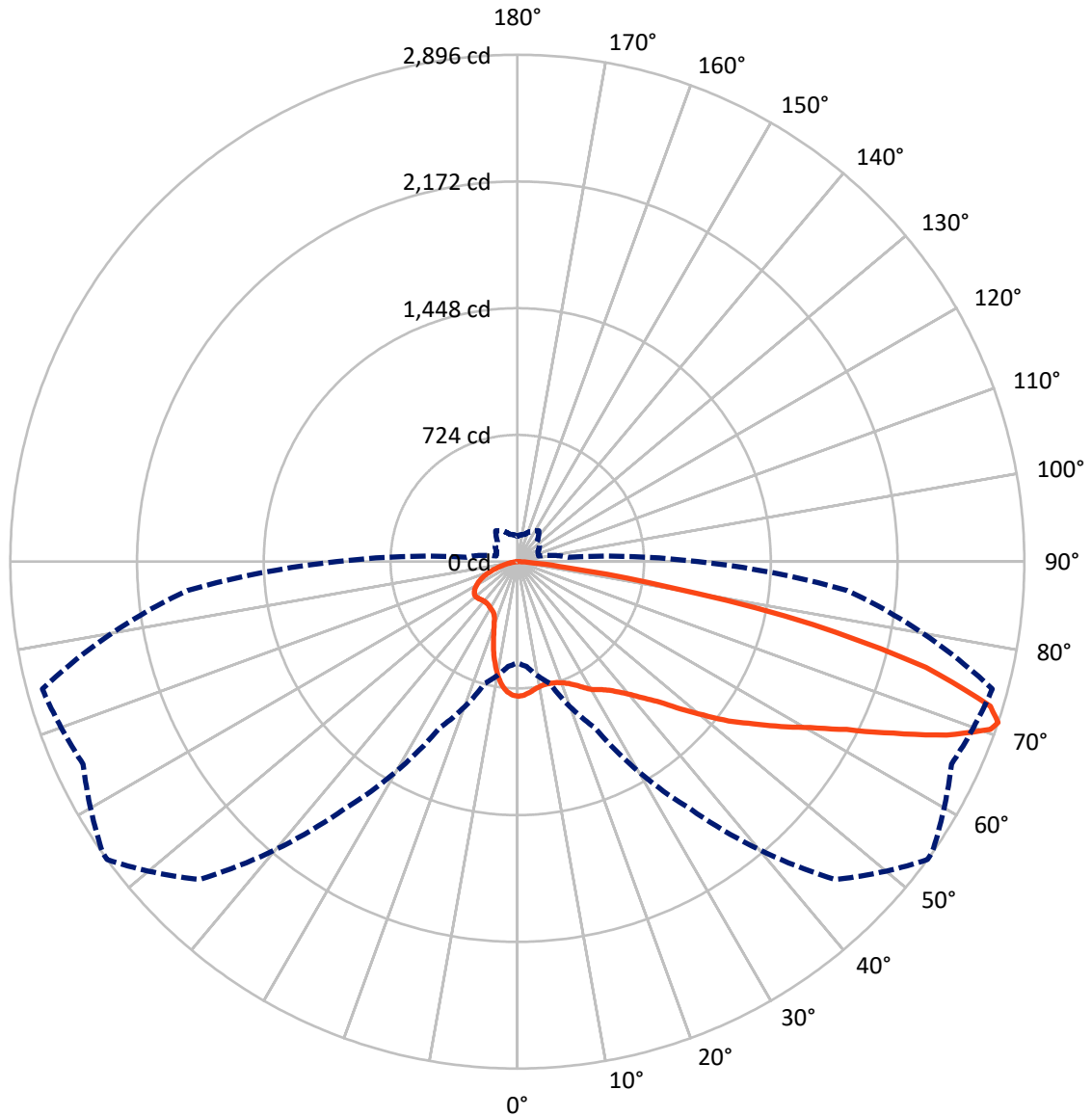
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	778.7	0.0	778.7
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	3534.3	0.0	3534.3
	% Fixture	81.9	0.0	81.9
Total	Lumens	4313.0	0.0	4313.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.6	1.6
10°-20°	181.1	4.2
20°-30°	301.5	7.0
30°-40°	445.8	10.3
40°-50°	627.9	14.6
50°-60°	840.8	19.5
60°-70°	1059.8	24.6
70°-80°	723.8	16.8
80°-90°	63.7	1.5
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°	4313.0	100.0
0°-180°	4313.0	100.0

Coefficient of Utilization



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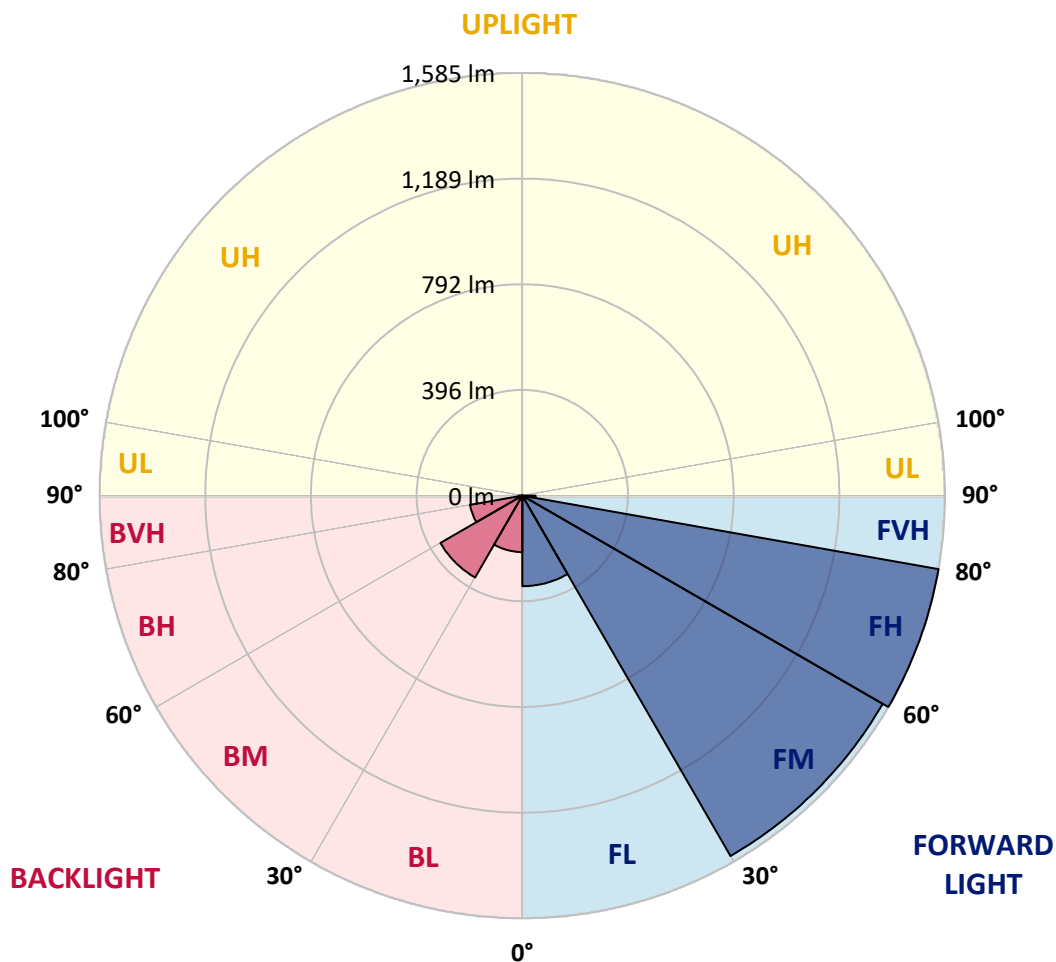
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	339.5	7.9			
FM	(30°-60°)	1560.3	36.2			
FH	(60°-80°)	1584.8	36.7			G1/1800
FVH	(80°-90°)	49.8	1.2			G1/100
BL	(0°-30°)	211.6	4.9	B1/500		
BM	(30°-60°)	354.3	8.2	B1/1000		
BH	(60°-80°)	198.9	4.6	B1/500		G1/500
BVH	(80°-90°)	13.9	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	769.5	769.5	769.5	769.5	769.5	769.5	769.5	769.5	769.5	769.5	769.5
2.5°	743.4	746.9	747.8	750.2	755.1	759.0	763.0	762.5	768.1	770.4	772.5
5°	710.3	711.3	714.8	719.4	728.0	739.0	749.7	749.9	763.7	774.6	780.0
7.5°	686.1	689.1	691.5	696.4	705.4	717.3	734.3	735.7	760.2	781.9	793.3
10°	670.3	673.8	676.3	682.4	691.5	704.7	723.1	725.7	757.6	793.3	813.3
12.5°	655.8	659.3	661.6	669.6	681.4	697.7	718.5	721.5	758.6	806.5	835.2
15°	664.7	667.5	666.5	668.9	676.8	695.4	720.3	723.4	762.0	819.4	856.9
17.5°	704.0	706.4	698.7	689.8	686.1	699.8	726.2	729.4	769.0	832.6	879.0
20°	762.0	768.3	751.6	731.8	713.8	715.7	738.3	741.8	778.8	845.9	901.6
22.5°	837.5	842.2	821.7	789.1	756.0	739.0	756.5	758.6	793.5	863.2	926.3
25°	926.3	929.1	900.7	858.7	811.0	778.8	781.4	785.1	817.7	882.7	948.2
27.5°	1012.5	1021.3	988.5	937.2	874.3	820.8	815.6	818.0	844.1	893.7	963.3
30°	1114.8	1114.1	1079.4	1019.9	939.3	866.4	848.0	847.5	858.3	899.0	974.3
32.5°	1196.3	1205.9	1171.8	1107.1	1013.7	913.7	870.4	869.4	869.2	908.4	990.6
35°	1289.0	1290.4	1259.2	1194.0	1094.0	973.1	901.6	896.9	891.6	928.4	1012.7
37.5°	1372.0	1378.5	1349.8	1276.7	1173.0	1034.9	944.5	941.4	925.1	963.1	1048.1
40°	1436.7	1441.6	1424.4	1354.7	1250.8	1101.5	999.0	993.4	973.6	1019.9	1095.4
42.5°	1457.9	1467.9	1474.7	1440.5	1340.3	1180.5	1066.1	1059.1	1043.9	1106.1	1149.9
45°	1459.6	1475.4	1511.0	1512.7	1430.2	1275.1	1144.4	1139.5	1138.3	1216.6	1226.6
47.5°	1447.2	1463.3	1523.2	1555.5	1510.4	1370.6	1257.3	1249.7	1250.4	1353.1	1312.6
50°	1417.4	1436.5	1509.2	1583.0	1573.0	1469.8	1376.6	1374.1	1388.5	1509.0	1401.8
52.5°	1361.2	1384.3	1494.7	1600.3	1619.6	1555.3	1512.2	1505.0	1541.6	1678.1	1499.4
55°	1205.9	1240.6	1441.9	1609.8	1663.9	1637.1	1634.3	1647.3	1695.8	1862.6	1606.8
57.5°	1124.8	1150.9	1327.0	1611.5	1719.8	1732.1	1776.9	1780.1	1864.9	2058.5	1728.2
60°	1080.5	1103.6	1264.1	1600.7	1797.8	1849.8	1922.7	1934.4	2030.1	2270.8	1854.0
62.5°	1041.8	1061.6	1226.4	1563.7	1885.9	2024.3	2111.6	2117.2	2217.7	2505.1	1978.2
65°	950.8	973.4	1150.4	1526.7	1961.8	2242.3	2362.3	2355.8	2417.3	2707.4	2056.0
67.5°	828.0	856.6	1008.5	1398.8	1999.4	2480.7	2644.7	2636.5	2614.4	2839.9	2078.3
70°	671.2	686.6	827.0	1177.7	1849.6	2605.8	2867.6	2859.0	2736.5	2857.4	1972.6
71°	577.5	601.5	720.1	1046.0	1724.9	2567.6	2896.3	2894.0	2736.7	2809.2	1892.9
72.5°	450.8	465.5	570.3	810.5	1466.1	2350.4	2825.5	2834.3	2677.3	2675.2	1728.6
75°	285.2	291.7	357.8	477.1	804.4	1664.6	2411.9	2435.9	2377.2	2189.7	1285.5
77.5°	165.6	174.0	214.3	281.2	347.6	903.5	1725.8	1751.9	1651.8	1205.6	526.3
80°	96.4	105.8	141.2	163.3	159.6	335.2	878.8	923.3	715.2	304.5	147.7
82.5°	53.6	59.9	99.2	99.5	85.0	109.5	276.5	289.3	204.1	122.8	60.3
85°	38.9	44.0	64.1	58.0	40.8	47.1	96.2	100.9	82.5	51.7	19.6
87.5°	13.7	19.6	35.2	28.0	11.2	9.8	27.7	22.6	21.0	14.4	4.4
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°	769.5	769.5	769.5	769.5	769.5	769.5	769.5	769.5	769.5	769.5	769.5
2.5°	773.7	774.2	771.8	767.6	763.4	758.1	752.0	747.4	745.3	745.0	744.8
5°	782.1	783.2	774.4	761.3	746.9	729.2	714.1	696.8	692.4	685.4	687.5
7.5°	795.6	794.9	777.4	749.7	715.9	678.4	646.7	628.3	609.2	603.9	604.1
10°	814.9	810.5	777.4	725.9	669.6	613.9	569.6	541.7	526.5	513.9	509.3
12.5°	835.4	824.3	770.0	692.6	609.9	541.7	494.1	456.4	446.6	436.4	436.6
15°	855.0	836.4	755.3	645.8	545.6	464.5	418.4	395.8	392.8	394.0	393.7
17.5°	872.7	845.0	732.9	593.6	470.6	398.4	373.9	375.5	383.7	389.5	390.2
20°	890.6	850.1	699.6	523.7	399.8	358.3	359.2	372.1	384.4	392.3	393.5
22.5°	907.7	852.4	660.5	456.2	348.5	341.3	355.0	368.8	380.9	388.6	389.8
25°	918.8	847.1	605.0	385.6	323.4	335.2	349.7	361.3	371.6	379.5	381.4
27.5°	921.9	829.8	536.3	328.5	311.7	329.4	342.7	351.3	359.2	366.7	368.1
30°	920.2	804.4	460.8	294.9	305.0	322.7	332.9	339.2	348.8	354.6	355.7
32.5°	917.7	774.9	382.1	277.0	299.4	316.4	322.4	328.0	327.8	325.5	327.1
35°	918.6	739.4	318.2	266.3	294.5	311.7	316.8	309.9	289.8	288.9	288.0
37.5°	923.5	704.5	271.9	258.8	291.9	311.0	313.8	281.7	264.0	255.8	253.7
40°	936.1	663.7	241.4	253.2	291.7	316.4	300.1	267.5	233.4	217.6	216.4
42.5°	952.9	623.7	222.7	249.7	294.5	324.5	294.5	247.4	210.4	201.1	199.7
45°	977.8	577.8	212.5	248.1	298.7	327.6	292.6	232.7	201.1	193.6	193.6
47.5°	1006.0	534.0	206.9	246.9	304.0	325.5	276.1	228.1	196.6	197.6	202.0
50°	1033.9	496.0	202.7	244.4	308.7	324.3	269.3	227.8	197.8	209.7	217.6
52.5°	1066.3	469.2	197.6	240.2	308.7	316.8	267.2	232.5	201.1	204.5	208.0
55°	1105.4	460.8	191.0	231.1	303.1	298.2	266.1	239.3	203.4	195.2	196.6
57.5°	1157.2	474.3	184.7	219.7	290.3	278.9	265.6	241.1	198.0	191.3	189.9
60°	1217.3	501.1	182.9	208.0	272.8	262.3	262.8	235.8	190.6	183.6	184.7
62.5°	1259.4	517.2	181.7	199.2	253.7	244.2	256.0	229.2	187.3	181.3	182.4
65°	1259.4	497.6	171.0	185.7	229.0	222.3	247.9	221.1	183.1	176.1	175.0
67.5°	1211.7	440.5	154.7	165.4	201.8	197.3	236.5	211.3	176.8	171.5	168.7
70°	1087.3	334.1	134.2	141.6	167.3	171.2	221.8	198.0	166.3	159.8	155.6
71°	1032.5	291.0	125.6	129.5	154.0	159.8	214.8	192.4	161.7	152.4	144.9
72.5°	927.0	245.1	112.5	114.2	131.6	142.1	200.1	181.7	152.8	139.5	131.2
75°	704.3	178.9	90.6	89.7	97.4	112.8	169.4	161.9	134.0	116.0	111.1
77.5°	304.3	97.4	67.8	68.5	66.2	85.5	133.3	139.1	114.9	94.4	89.9
80°	92.3	56.1	46.4	47.3	44.3	57.3	93.9	109.0	92.3	73.4	67.3
82.5°	47.3	33.5	31.7	31.2	28.2	32.4	56.8	74.6	65.9	45.9	40.5
85°	20.5	17.9	15.6	15.1	13.3	11.6	20.3	37.3	34.9	25.6	24.5
87.5°	5.1	4.7	3.0	2.8	1.6	0.2	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)