

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: P944867

Luminaire Tested: **GALN-SB1A-727-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944867
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1A-727-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4218 lumens
Efficiency: N/A
Efficacy: 136.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 30.9
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

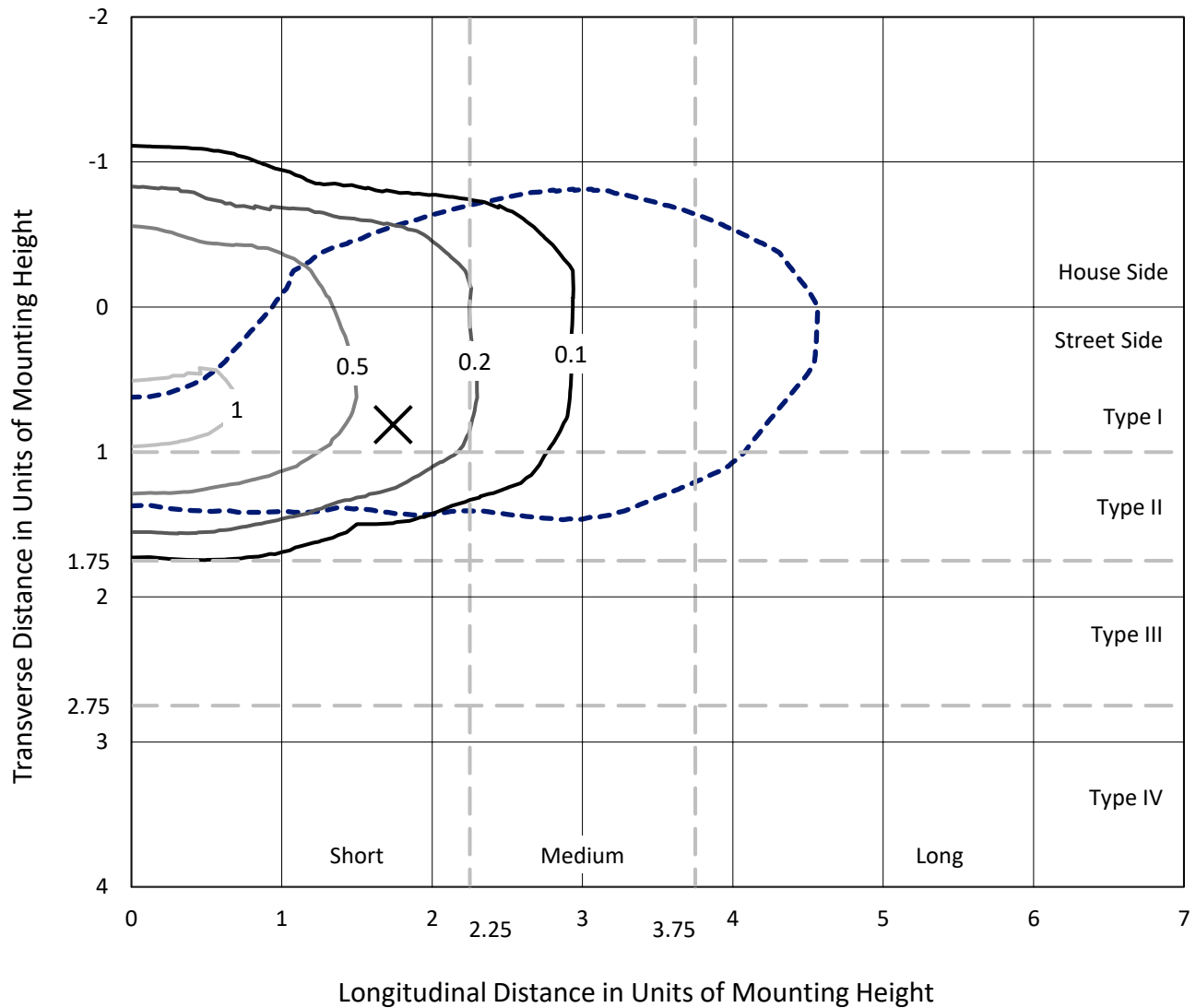


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd

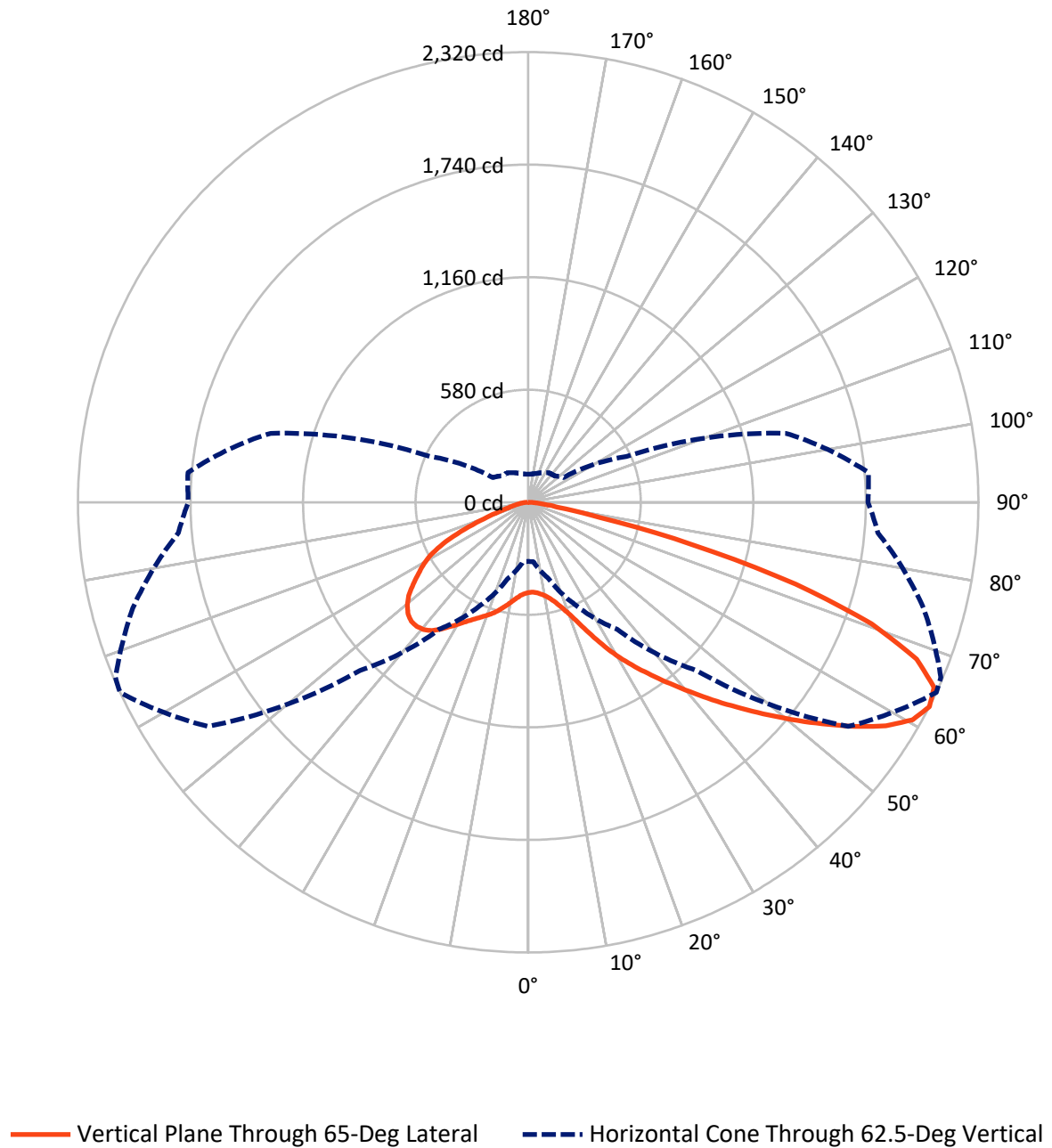


Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1331.0	0.0	1331.0
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	2887.0	0.0	2887.0
	% Fixture	68.4	0.0	68.4
Total	Lumens	4218.0	0.0	4218.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.3	1.1
10°-20°	157.1	3.7
20°-30°	318.6	7.6
30°-40°	551.4	13.1
40°-50°	834.4	19.8
50°-60°	978.3	23.2
60°-70°	820.2	19.4
70°-80°	452.8	10.7
80°-90°	58.8	1.4
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°	4218.0	100.0
0°-180°	4218.0	100.0

Coefficient of Utilization



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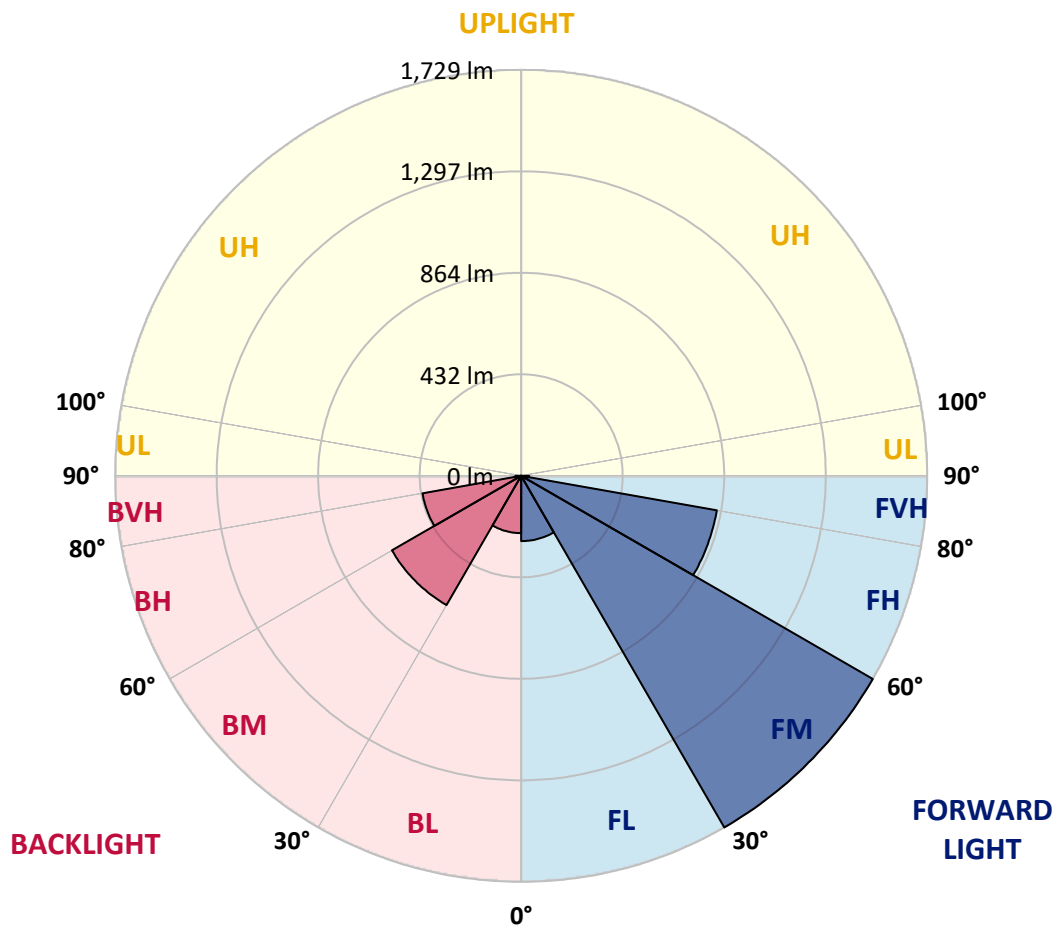
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	278.0	6.6			
FM	(30°-60°)	1728.7	41.0			
FH	(60°-80°)	846.0	20.1			G1/1800
FVH	(80°-90°)	34.3	0.8			G1/100
BL	(0°-30°)	244.1	5.8	B1/500		
BM	(30°-60°)	635.4	15.1	B1/1000		
BH	(60°-80°)	427.0	10.1	B1/500		G1/500
BVH	(80°-90°)	24.5	0.6			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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8
2.5°	461.7	460.4	461.5	461.5	462.0	461.7	463.3	463.7	464.4	465.7	465.7
5°	457.1	456.9	458.9	460.6	462.4	463.9	465.9	468.7	469.2	470.7	472.7
7.5°	455.6	454.3	457.4	459.6	463.7	467.4	472.7	477.5	479.5	480.1	483.8
10°	467.4	465.2	468.1	469.4	472.9	476.6	482.7	490.4	492.6	495.2	499.4
12.5°	487.6	485.2	489.3	491.3	494.6	497.8	502.0	509.4	510.5	515.4	519.3
15°	515.1	512.3	514.9	517.3	522.8	525.9	530.0	537.2	537.2	541.0	543.8
17.5°	552.6	548.8	550.8	551.7	555.2	559.8	566.8	573.1	576.4	575.1	571.2
20°	608.4	603.8	603.8	599.4	598.1	601.8	611.0	619.7	623.2	616.5	606.8
22.5°	692.2	685.6	681.9	667.0	661.1	661.5	670.7	681.5	684.3	672.3	650.6
25°	798.7	788.5	783.4	761.5	748.2	736.6	743.8	757.6	761.5	746.7	711.7
27.5°	905.3	906.0	901.2	874.9	852.8	831.6	827.9	842.3	846.5	829.6	786.3
30°	1054.8	1039.2	1030.1	998.5	967.0	937.3	922.0	927.9	929.0	908.8	858.5
32.5°	1183.7	1179.7	1160.0	1132.5	1092.0	1045.4	1019.8	1010.4	1008.6	979.9	920.2
35°	1330.5	1328.3	1307.5	1274.7	1230.9	1166.2	1120.0	1093.1	1090.9	1050.6	981.3
37.5°	1479.8	1479.8	1459.4	1423.5	1378.2	1297.3	1227.0	1184.3	1177.3	1124.8	1043.4
40°	1598.8	1591.6	1595.3	1580.2	1528.3	1442.3	1345.8	1283.9	1274.5	1211.5	1109.5
42.5°	1666.4	1664.0	1686.3	1703.2	1682.0	1613.3	1476.7	1391.8	1378.7	1306.9	1185.6
45°	1681.5	1678.9	1718.7	1780.4	1810.2	1782.0	1618.9	1505.4	1489.4	1406.7	1267.3
47.5°	1646.7	1641.5	1699.9	1797.3	1892.7	1942.4	1773.0	1628.6	1605.4	1503.8	1351.1
50°	1542.1	1537.1	1625.5	1754.8	1920.5	2051.4	1940.2	1759.2	1723.8	1608.0	1435.8
52.5°	1314.8	1317.2	1455.7	1633.4	1883.9	2119.2	2084.2	1896.9	1854.2	1714.6	1515.2
55°	1024.1	1029.4	1199.7	1395.3	1737.8	2108.9	2182.4	2038.7	1996.2	1814.8	1597.3
57.5°	733.3	756.5	916.0	1109.7	1457.0	1945.9	2203.9	2173.5	2132.3	1924.2	1677.6
60°	475.3	479.5	643.6	838.8	1109.5	1656.1	2160.3	2275.7	2243.5	2035.8	1744.8
62.5°	304.6	307.5	407.5	586.7	798.5	1225.3	2013.7	2320.1	2310.2	2109.6	1809.3
65°	223.9	221.7	273.8	387.8	537.9	755.6	1729.0	2298.6	2318.1	2155.7	1862.7
67.5°	186.9	183.8	209.4	268.5	396.3	429.1	1279.3	2159.2	2230.6	2150.5	1901.9
70°	170.3	167.6	183.2	199.4	309.2	287.3	644.9	1877.2	1987.0	2090.7	1895.5
72.5°	144.2	139.6	160.8	177.0	240.5	220.4	266.5	1441.9	1575.8	1899.3	1806.3
75°	111.8	108.8	126.9	155.8	180.8	172.0	168.5	875.6	1021.7	1468.8	1580.2
77.5°	88.6	84.5	101.1	121.5	162.6	129.8	122.8	377.1	521.9	937.7	1182.4
80°	66.7	63.0	76.8	96.1	125.0	97.8	79.4	153.8	196.7	475.1	594.6
82.5°	47.5	44.2	53.6	70.5	84.0	87.8	48.8	86.2	96.9	183.2	132.8
85°	30.4	28.4	35.9	44.2	53.4	56.5	29.8	45.1	49.5	75.5	55.4
87.5°	16.6	13.6	19.3	20.6	24.7	22.5	14.2	16.4	17.7	27.4	23.4
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°	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8
2.5°	466.6	467.2	469.4	470.1	471.6	473.6	474.9	476.2	476.2	477.5	477.5
5°	472.9	474.4	479.0	481.4	485.4	489.3	491.7	494.6	496.3	497.2	497.6
7.5°	485.2	487.6	494.1	498.3	505.1	510.5	514.3	518.2	519.1	521.5	520.6
10°	501.8	504.6	512.1	520.0	528.0	534.8	538.3	541.2	542.3	542.7	541.6
12.5°	520.8	525.0	534.6	544.2	552.8	558.7	559.6	558.9	555.8	553.2	553.2
15°	544.2	548.0	558.7	569.2	577.5	578.6	573.1	569.6	565.9	565.3	565.3
17.5°	572.3	574.2	584.1	594.4	595.0	591.3	583.2	579.9	576.4	574.0	574.2
20°	604.9	604.2	611.2	615.6	611.0	599.6	587.4	581.9	578.4	575.5	575.8
22.5°	643.8	638.8	637.9	636.8	624.6	600.7	584.1	577.1	571.6	567.7	569.0
25°	700.5	681.2	667.9	660.4	632.9	594.8	573.6	558.0	547.7	541.0	543.6
27.5°	771.4	739.0	705.3	687.1	632.9	582.8	548.2	523.0	506.2	499.2	502.7
30°	839.0	805.1	755.4	719.3	631.3	563.1	507.3	472.2	452.6	445.5	449.7
32.5°	896.8	859.8	808.6	754.5	627.6	531.1	456.5	417.8	398.7	390.4	394.6
35°	950.4	911.0	862.0	793.3	617.8	484.3	400.7	371.1	349.9	336.6	340.9
37.5°	1005.3	958.5	912.5	828.3	600.0	429.6	357.8	332.6	307.7	289.7	294.6
40°	1065.1	1009.0	966.6	849.1	570.9	377.5	324.5	301.6	275.1	256.0	259.8
42.5°	1134.9	1069.7	1026.8	859.8	531.1	340.5	302.9	280.3	255.4	239.8	242.9
45°	1207.7	1136.4	1081.7	859.6	486.7	323.2	295.9	273.5	246.0	229.8	232.4
47.5°	1284.1	1206.2	1129.2	845.6	448.2	325.6	291.9	258.9	228.5	212.7	214.9
50°	1360.7	1282.6	1175.1	819.3	431.8	320.4	277.3	238.3	202.4	188.2	189.1
52.5°	1436.7	1363.8	1214.8	781.9	415.1	300.9	258.4	211.6	191.7	181.9	181.9
55°	1513.0	1444.1	1257.9	727.4	373.6	278.1	226.9	201.5	183.2	174.2	173.3
57.5°	1589.6	1536.9	1298.8	672.9	321.2	250.1	209.6	189.3	174.6	167.0	165.7
60°	1669.3	1643.0	1341.0	622.8	269.6	214.2	197.0	179.4	164.6	156.0	155.4
62.5°	1751.3	1759.9	1374.1	558.2	222.1	192.4	185.6	167.6	153.2	145.1	144.9
65°	1834.1	1872.6	1395.7	468.7	180.1	171.6	173.3	154.7	140.1	133.1	132.8
67.5°	1896.4	1953.8	1389.6	354.7	147.7	151.9	158.0	141.1	127.4	121.9	122.1
70°	1903.4	1944.1	1329.2	242.9	123.6	132.6	140.9	127.8	113.6	109.6	109.9
72.5°	1810.2	1812.8	1160.9	158.7	104.6	116.4	123.0	114.2	100.4	96.5	96.3
75°	1565.8	1499.2	852.4	104.6	87.5	100.0	106.1	100.0	86.7	87.5	84.5
77.5°	1186.3	1061.8	517.5	74.4	73.1	84.0	92.3	88.0	76.6	86.0	75.7
80°	611.2	574.4	230.9	55.6	57.8	67.2	75.9	70.2	60.6	57.8	52.7
82.5°	140.1	162.8	91.0	39.8	41.8	48.4	58.0	52.7	43.5	36.8	36.3
85°	49.0	53.6	40.3	24.9	24.5	30.2	39.4	35.2	29.5	23.6	24.9
87.5°	15.5	20.4	15.1	10.1	10.5	13.6	18.2	16.6	13.8	9.0	9.4
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)