

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: P450446

Luminaire Tested: **GALN-SA1B-727-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450446
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-SA1B-727-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4928 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 44
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

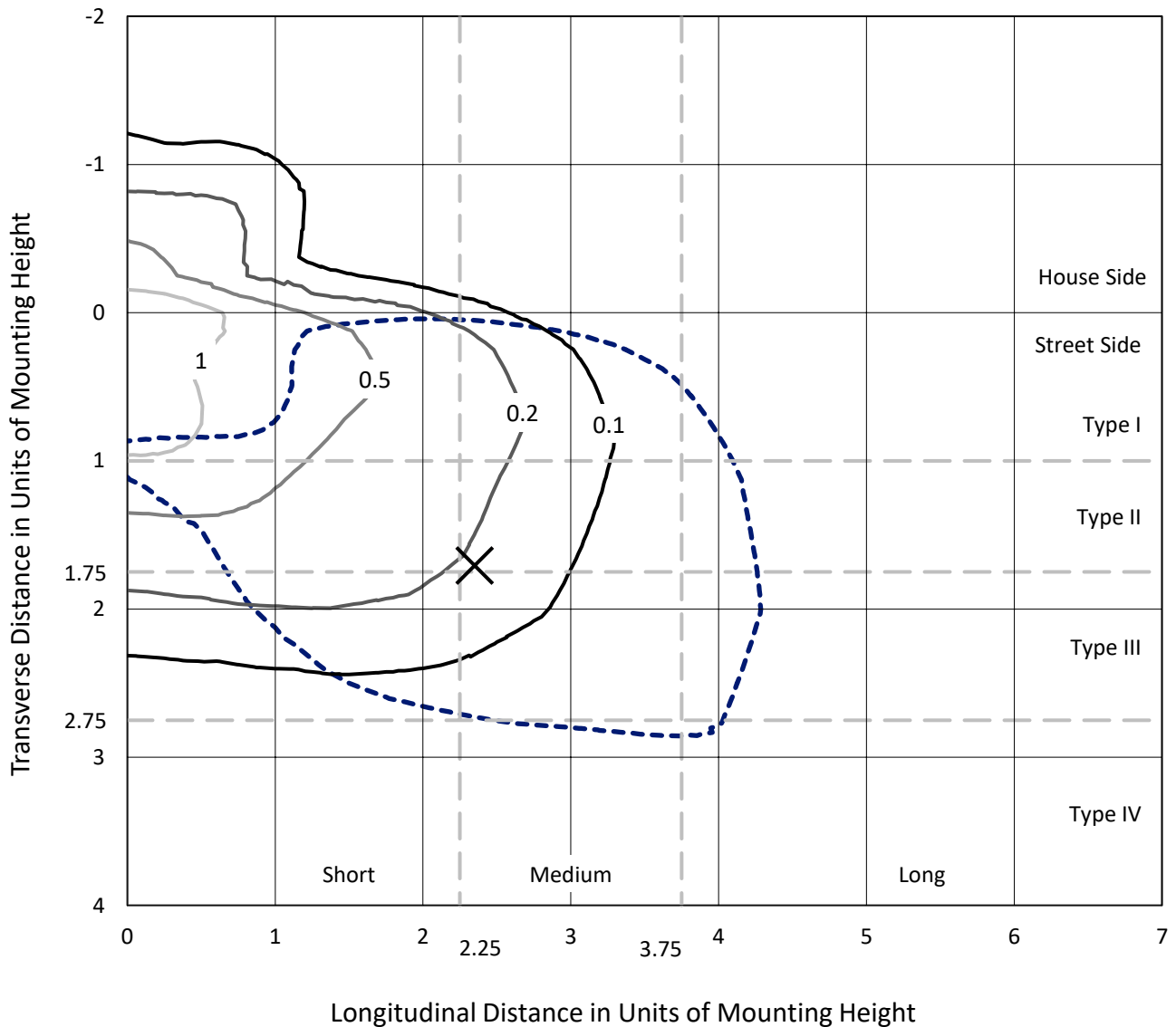




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Iso-Footcandle Lines of Horizontal Illumination

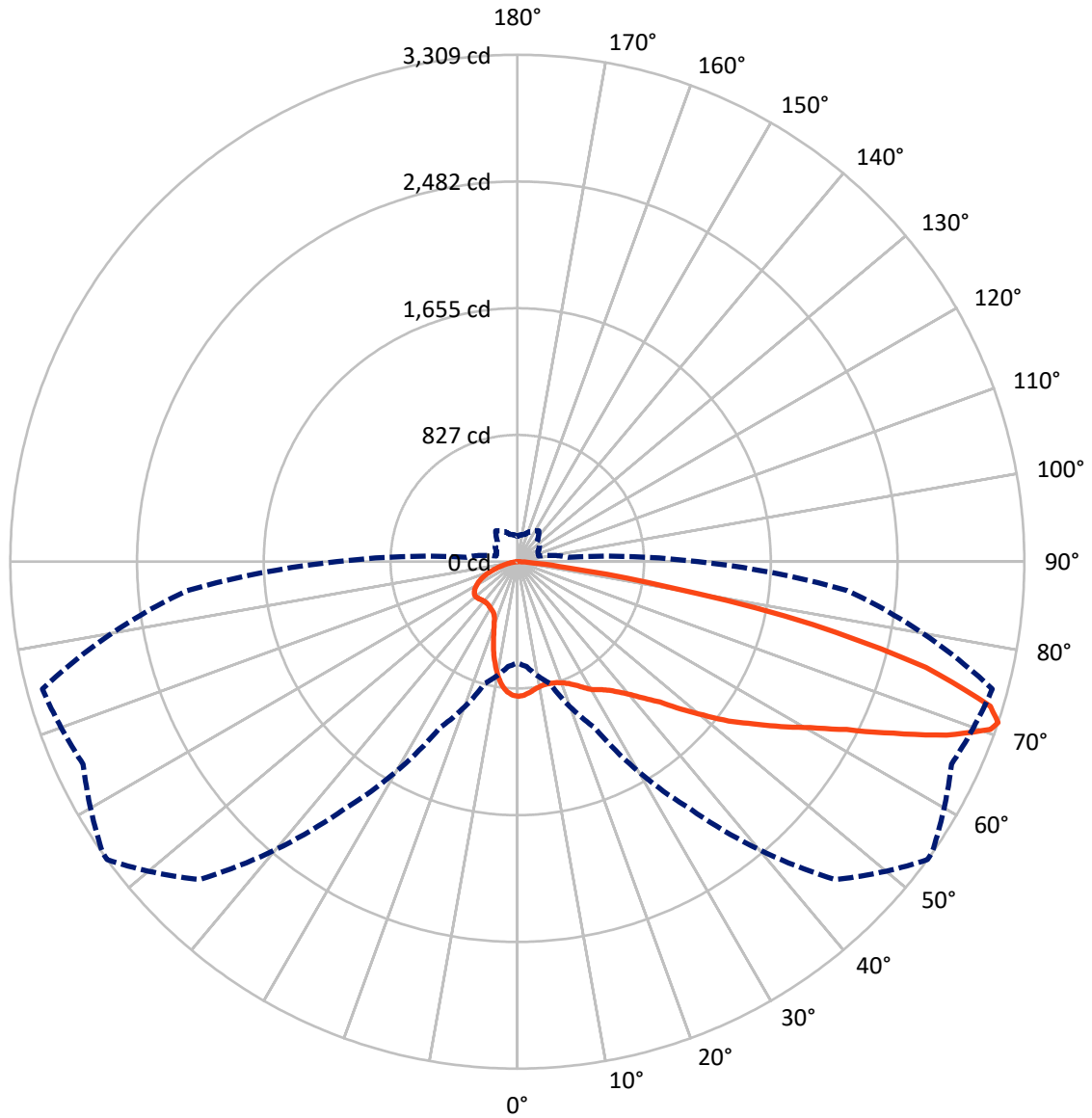
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 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	889.7	0.0	889.7
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	4038.3	0.0	4038.3
	% Fixture	81.9	0.0	81.9
Total	Lumens	4928.0	0.0	4928.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.4	1.6
10°-20°	206.9	4.2
20°-30°	344.5	7.0
30°-40°	509.4	10.3
40°-50°	717.5	14.6
50°-60°	960.7	19.5
60°-70°	1210.9	24.6
70°-80°	827.1	16.8
80°-90°	72.7	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°	4928.0	100.0
0°-180°	4928.0	100.0

Coefficient of Utilization



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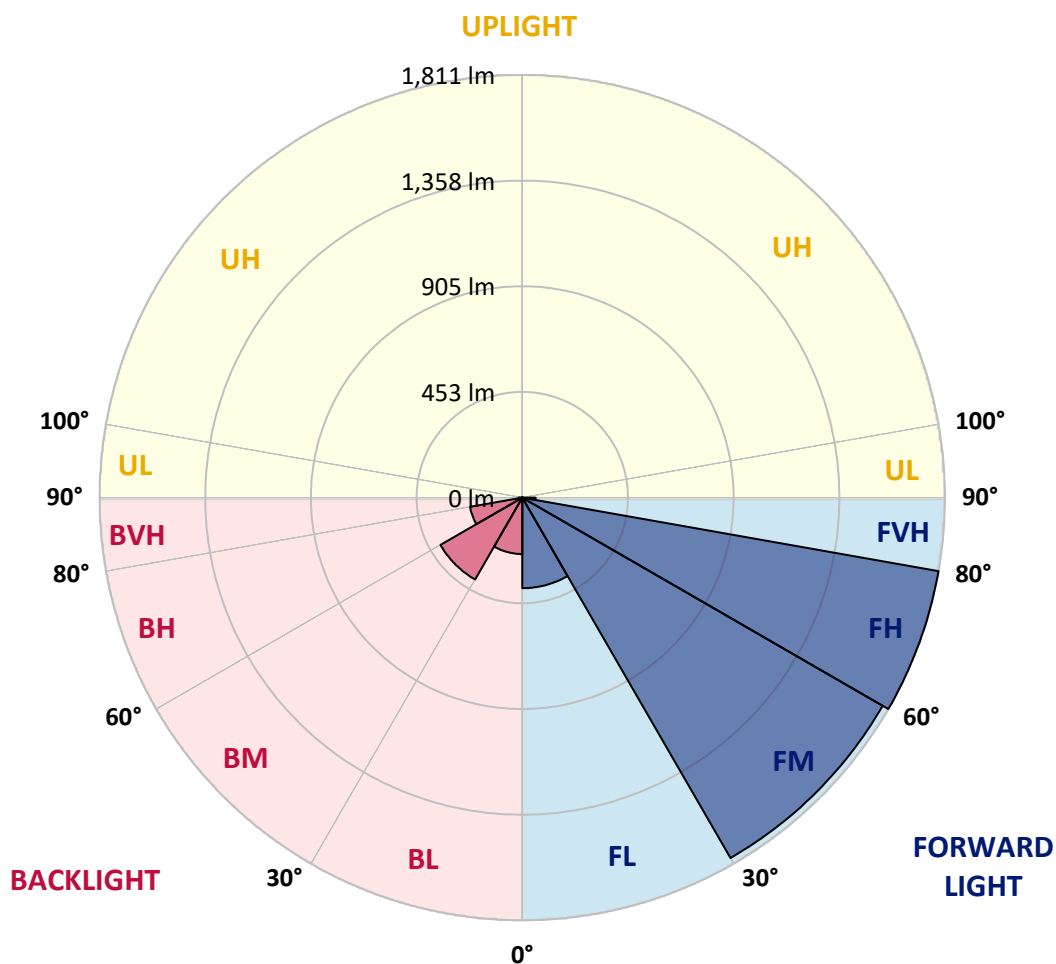
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	387.9	7.9			
FM (30°-60°)	1782.8	36.2			
FH (60°-80°)	1810.7	36.7			G2/5000
FVH (80°-90°)	56.9	1.2			G1/100
BL (0°-30°)	241.8	4.9	B1/500		
BM (30°-60°)	404.8	8.2	B1/1000		
BH (60°-80°)	227.2	4.6	B1/500		G1/500
BVH (80°-90°)	15.9	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-G2

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	879.2	879.2	879.2	879.2	879.2	879.2	879.2	879.2	879.2	879.2	879.2
2.5°	849.4	853.4	854.5	857.1	862.7	867.2	871.8	871.2	877.6	880.3	882.7
5°	811.6	812.7	816.7	822.0	831.8	844.4	856.6	856.9	872.6	885.1	891.2
7.5°	783.9	787.4	790.1	795.6	806.0	819.6	839.0	840.6	868.6	893.3	906.4
10°	765.8	769.8	772.8	779.7	790.1	805.2	826.3	829.2	865.7	906.4	929.3
12.5°	749.3	753.3	756.0	765.0	778.6	797.2	820.9	824.4	866.7	921.6	954.3
15°	759.4	762.6	761.6	764.2	773.3	794.6	823.1	826.5	870.7	936.2	979.0
17.5°	804.4	807.1	798.3	788.2	783.9	799.6	829.7	833.4	878.7	951.4	1004.3
20°	870.7	877.9	858.7	836.1	815.6	817.7	843.6	847.6	889.9	966.5	1030.2
22.5°	957.0	962.3	938.9	901.6	863.8	844.4	864.3	866.7	906.6	986.2	1058.4
25°	1058.4	1061.6	1029.1	981.2	926.6	889.9	892.8	897.1	934.3	1008.6	1083.4
27.5°	1156.9	1167.0	1129.4	1070.9	999.0	937.8	931.9	934.6	964.4	1021.1	1100.7
30°	1273.7	1272.9	1233.3	1165.4	1073.3	990.0	968.9	968.4	980.6	1027.2	1113.2
32.5°	1366.9	1377.8	1338.9	1264.9	1158.2	1044.0	994.5	993.4	993.2	1037.9	1131.8
35°	1472.8	1474.4	1438.8	1364.2	1250.0	1111.9	1030.2	1024.8	1018.7	1060.8	1157.1
37.5°	1567.6	1575.1	1542.3	1458.7	1340.3	1182.4	1079.1	1075.7	1057.0	1100.4	1197.6
40°	1641.6	1647.2	1627.5	1547.9	1429.2	1258.6	1141.4	1135.0	1112.4	1165.4	1251.6
42.5°	1665.8	1677.3	1685.0	1645.9	1531.4	1348.8	1218.1	1210.1	1192.8	1263.9	1313.9
45°	1667.7	1685.8	1726.5	1728.4	1634.1	1456.9	1307.5	1301.9	1300.6	1390.0	1401.5
47.5°	1653.6	1671.9	1740.4	1777.4	1725.7	1566.0	1436.6	1427.8	1428.6	1546.0	1499.7
50°	1619.5	1641.3	1724.4	1808.8	1797.3	1679.4	1572.9	1570.0	1586.5	1724.1	1601.7
52.5°	1555.4	1581.7	1707.9	1828.5	1850.6	1777.1	1727.8	1719.6	1761.4	1917.4	1713.2
55°	1377.8	1417.5	1647.5	1839.4	1901.1	1870.5	1867.3	1882.2	1937.6	2128.2	1835.9
57.5°	1285.2	1315.0	1516.2	1841.2	1965.0	1979.1	2030.2	2034.0	2130.9	2352.1	1974.6
60°	1234.6	1260.9	1444.4	1829.0	2054.2	2113.6	2196.9	2210.2	2319.6	2594.6	2118.3
62.5°	1190.4	1213.0	1401.2	1786.7	2154.8	2312.9	2412.8	2419.1	2533.9	2862.3	2260.2
65°	1086.3	1112.1	1314.5	1744.3	2241.6	2562.1	2699.2	2691.7	2762.0	3093.4	2349.1
67.5°	946.0	978.8	1152.3	1598.2	2284.4	2834.4	3021.8	3012.5	2987.2	3244.9	2374.7
70°	766.9	784.5	945.0	1345.6	2113.3	2977.3	3276.5	3266.7	3126.7	3264.8	2253.8
71°	659.9	687.3	822.8	1195.2	1970.9	2933.7	3309.3	3306.6	3126.9	3209.7	2162.8
72.5°	515.1	531.8	651.6	926.1	1675.1	2685.6	3228.4	3238.5	3059.1	3056.7	1975.1
75°	325.8	333.3	408.9	545.2	919.2	1901.9	2755.9	2783.3	2716.2	2501.9	1468.8
77.5°	189.3	198.8	244.9	321.3	397.2	1032.3	1971.9	2001.8	1887.3	1377.5	601.3
80°	110.2	120.9	161.3	186.6	182.3	383.0	1004.1	1054.9	817.2	347.9	168.8
82.5°	61.2	68.4	113.4	113.7	97.2	125.1	316.0	330.6	233.2	140.3	68.9
85°	44.5	50.3	73.2	66.3	46.6	53.8	109.9	115.3	94.2	59.1	22.4
87.5°	15.7	22.4	40.2	31.9	12.8	11.2	31.7	25.8	24.0	16.5	5.1
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°	879.2	879.2	879.2	879.2	879.2	879.2	879.2	879.2	879.2	879.2	879.2
2.5°	884.0	884.6	881.9	877.1	872.3	866.2	859.3	853.9	851.5	851.3	851.0
5°	893.6	894.9	884.8	869.9	853.4	833.2	815.9	796.2	791.1	783.1	785.5
7.5°	909.0	908.2	888.3	856.6	818.0	775.1	738.9	717.9	696.1	690.0	690.2
10°	931.1	926.1	888.3	829.5	765.0	701.4	650.8	618.9	601.6	587.2	581.9
12.5°	954.6	941.8	879.8	791.4	696.9	618.9	564.6	521.5	510.3	498.6	498.8
15°	976.9	955.6	863.0	737.9	623.4	530.8	478.1	452.3	448.8	450.1	449.9
17.5°	997.2	965.5	837.4	678.3	537.7	455.2	427.2	429.1	438.4	445.1	445.9
20°	1017.6	971.3	799.4	598.4	456.8	409.4	410.5	425.1	439.2	448.3	449.6
22.5°	1037.1	974.0	754.7	521.2	398.2	390.0	405.7	421.4	435.2	444.0	445.3
25°	1049.9	967.9	691.3	440.5	369.5	383.0	399.6	412.9	424.6	433.6	435.8
27.5°	1053.3	948.2	612.8	375.3	356.2	376.4	391.6	401.4	410.5	419.0	420.6
30°	1051.5	919.2	526.5	337.0	348.4	368.7	380.4	387.6	398.5	405.1	406.5
32.5°	1048.5	885.4	436.6	316.5	342.1	361.5	368.4	374.8	374.5	371.9	373.7
35°	1049.6	844.9	363.6	304.3	336.5	356.2	362.0	354.0	331.1	330.1	329.0
37.5°	1055.2	805.0	310.6	295.7	333.5	355.4	358.6	321.8	301.6	292.3	289.9
40°	1069.6	758.4	275.8	289.3	333.3	361.5	342.9	305.6	266.7	248.6	247.3
42.5°	1088.7	712.6	254.5	285.4	336.5	370.8	336.5	282.7	240.4	229.7	228.1
45°	1117.2	660.2	242.8	283.5	341.3	374.3	334.3	265.9	229.7	221.2	221.2
47.5°	1149.4	610.1	236.4	282.2	347.4	371.9	315.4	260.6	224.7	225.7	230.8
50°	1181.4	566.7	231.6	279.2	352.7	370.5	307.7	260.3	226.0	239.6	248.6
52.5°	1218.4	536.1	225.7	274.4	352.7	362.0	305.3	265.7	229.7	233.7	237.7
55°	1263.1	526.5	218.3	264.1	346.3	340.7	304.0	273.4	232.4	223.1	224.7
57.5°	1322.2	542.0	211.1	251.0	331.7	318.6	303.5	275.5	226.3	218.5	216.9
60°	1390.8	572.6	209.0	237.7	311.7	299.7	300.3	269.4	217.7	209.8	211.1
62.5°	1439.0	590.9	207.6	227.6	289.9	279.0	292.5	261.9	214.0	207.1	208.4
65°	1439.0	568.6	195.4	212.2	261.7	253.9	283.2	252.6	209.2	201.2	199.9
67.5°	1384.5	503.4	176.8	189.0	230.5	225.5	270.2	241.4	202.0	195.9	192.7
70°	1242.3	381.7	153.3	161.8	191.1	195.7	253.4	226.3	190.1	182.6	177.8
71°	1179.8	332.5	143.5	148.0	176.0	182.6	245.4	219.9	184.7	174.1	165.6
72.5°	1059.2	280.0	128.6	130.4	150.4	162.4	228.7	207.6	174.6	159.4	149.9
75°	804.7	204.4	103.5	102.5	111.3	128.8	193.5	185.0	153.1	132.6	127.0
77.5°	347.6	111.3	77.5	78.3	75.6	97.7	152.3	158.9	131.2	107.8	102.7
80°	105.4	64.2	53.0	54.0	50.6	65.5	107.3	124.6	105.4	83.9	76.9
82.5°	54.0	38.3	36.2	35.7	32.2	37.0	65.0	85.2	75.3	52.4	46.3
85°	23.4	20.5	17.8	17.3	15.2	13.3	23.2	42.6	39.9	29.3	28.0
87.5°	5.9	5.3	3.5	3.2	1.9	0.3	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)