

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: P458566

Luminaire Tested: **GALN-SA1B-735-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458566
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-735-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5489 lumens
Efficiency: N/A
Efficacy: 124.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

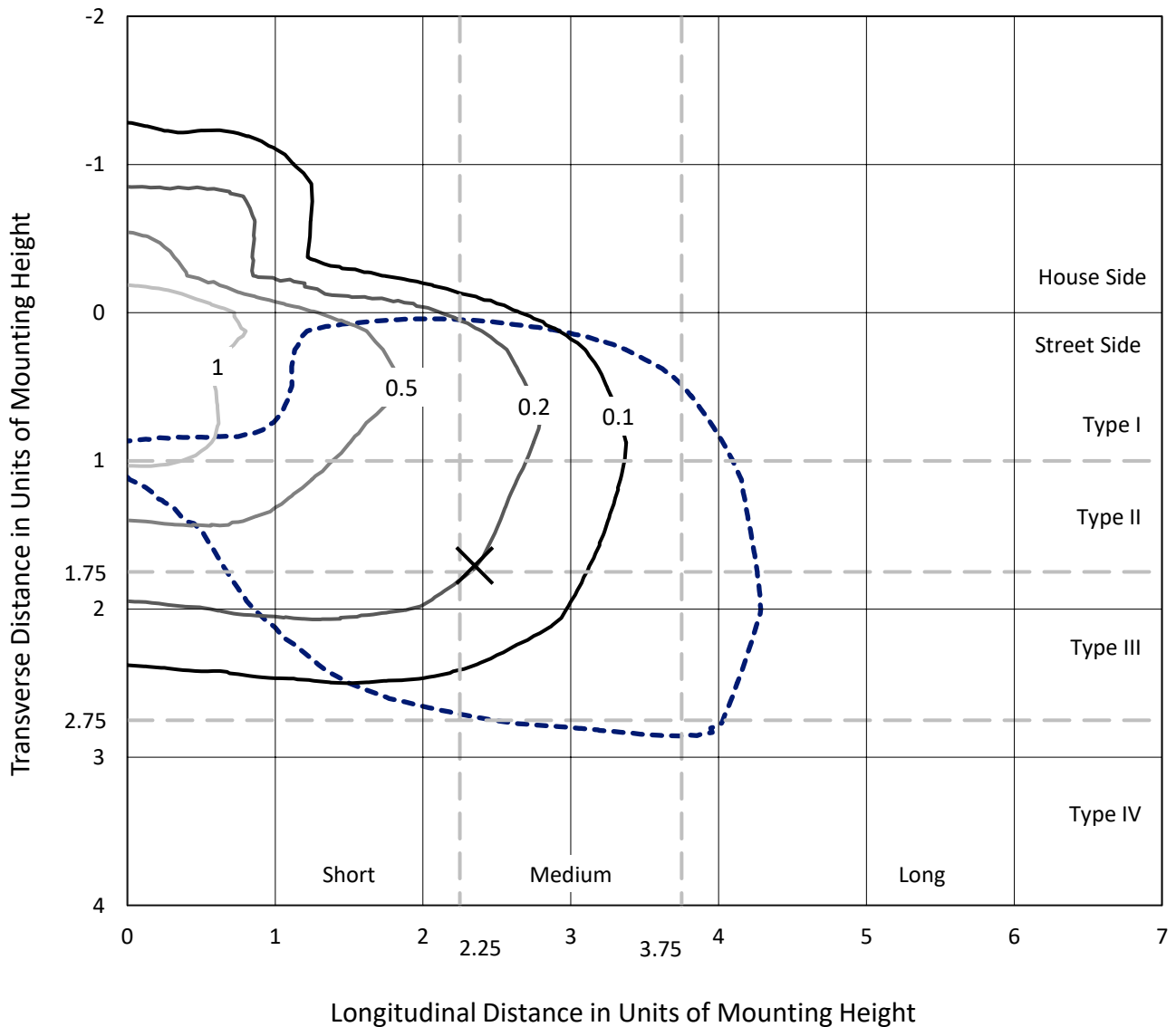
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

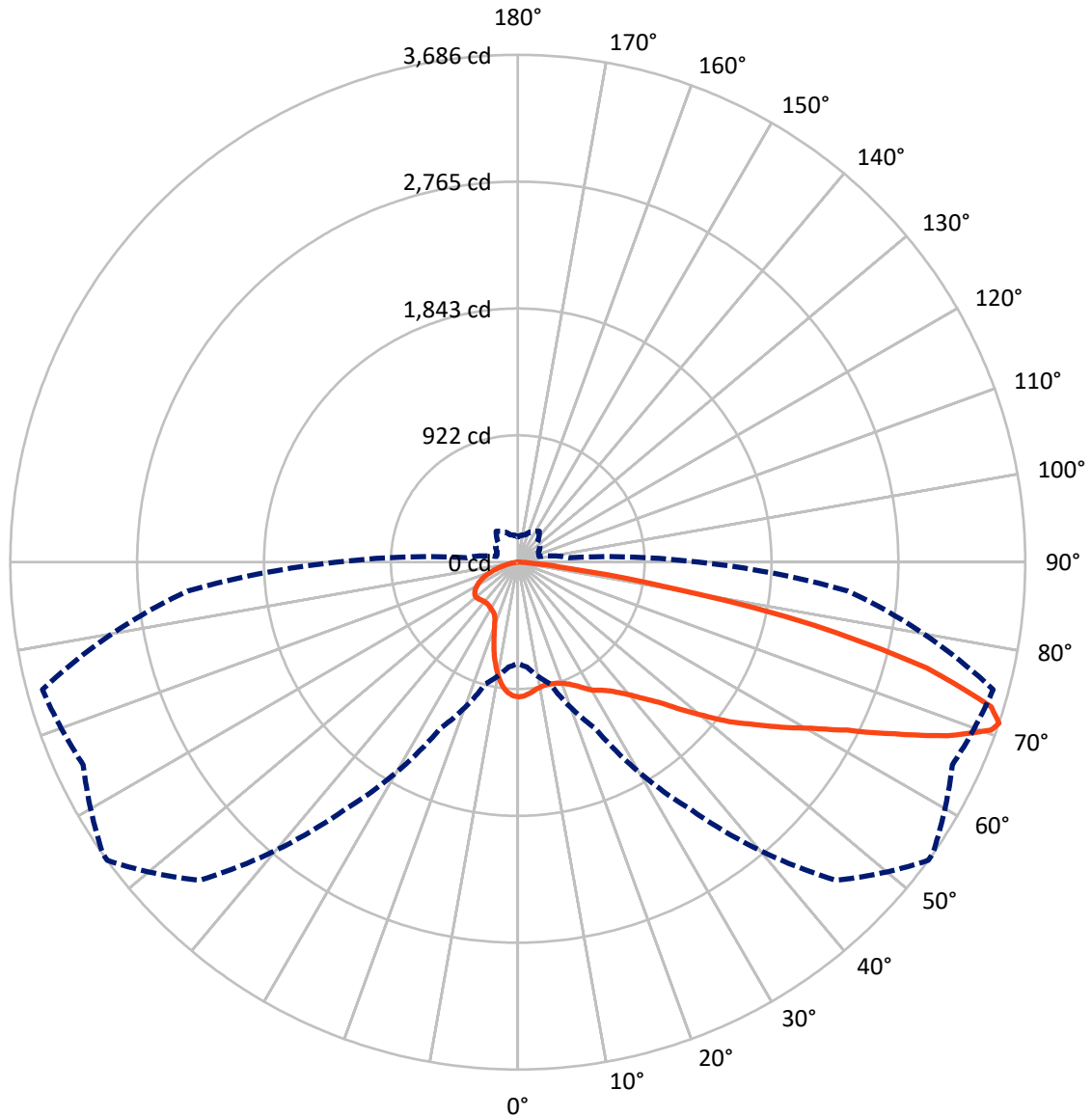
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 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	991.0	0.0	991.0
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	4498.0	0.0	4498.0
	% Fixture	81.9	0.0	81.9
Total	Lumens	5489.0	0.0	5489.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.3	1.6
10°-20°	230.4	4.2
20°-30°	383.7	7.0
30°-40°	567.4	10.3
40°-50°	799.1	14.6
50°-60°	1070.1	19.5
60°-70°	1348.8	24.6
70°-80°	921.2	16.8
80°-90°	81.0	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°	5489.0	100.0
0°-180°	5489.0	100.0

Coefficient of Utilization



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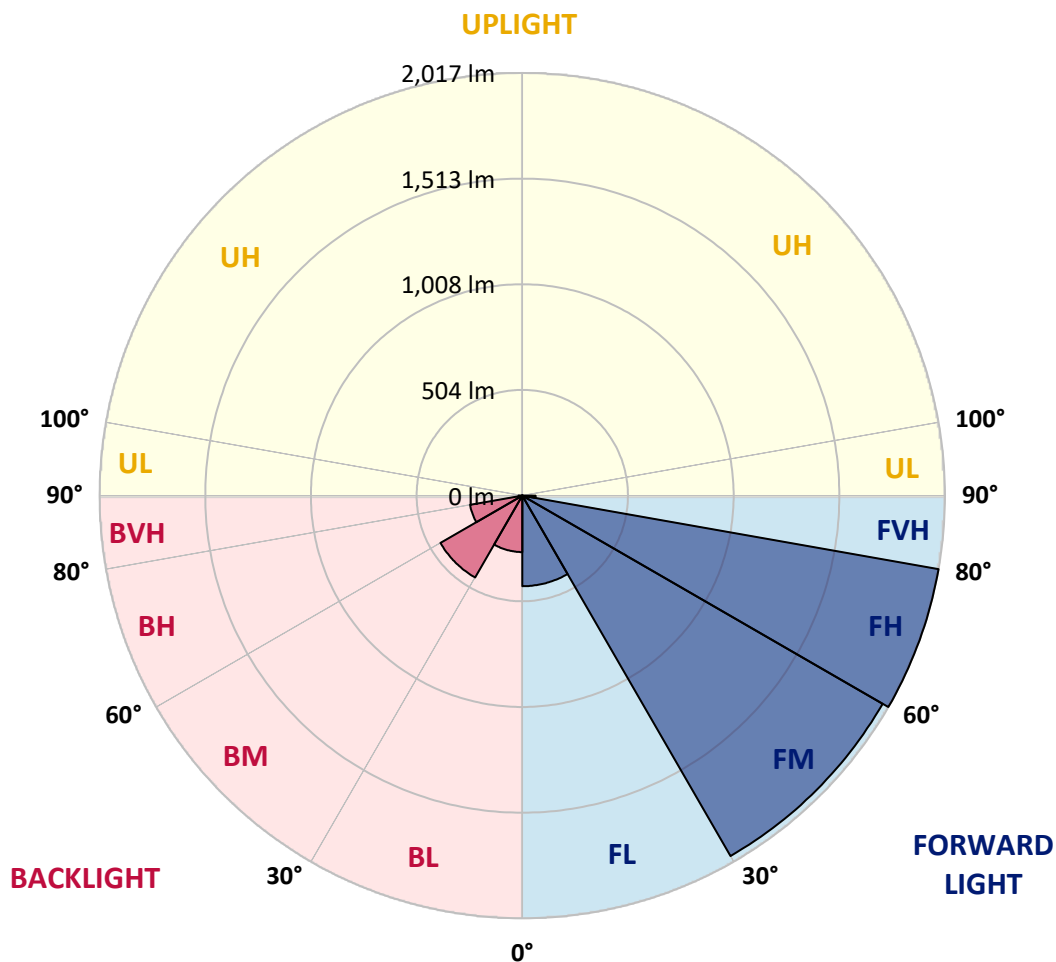
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	432.1	7.9			
FM	(30°-60°)	1985.7	36.2			
FH	(60°-80°)	2016.9	36.7			G2/5000
FVH	(80°-90°)	63.3	1.2			G1/100
BL	(0°-30°)	269.3	4.9	B1/500		
BM	(30°-60°)	450.9	8.2	B1/1000		
BH	(60°-80°)	253.1	4.6	B1/500		G1/500
BVH	(80°-90°)	17.7	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°	979.3	979.3	979.3	979.3	979.3	979.3	979.3	979.3	979.3	979.3	979.3
2.5°	946.1	950.6	951.7	954.7	960.9	966.0	971.0	970.4	977.5	980.5	983.2
5°	904.0	905.2	909.6	915.6	926.5	940.5	954.1	954.4	971.9	985.8	992.7
7.5°	873.2	877.0	880.0	886.2	897.8	912.9	934.5	936.3	967.5	995.0	1009.6
10°	853.0	857.5	860.7	868.4	880.0	896.9	920.3	923.6	964.2	1009.6	1035.1
12.5°	834.6	839.1	842.0	852.1	867.2	888.0	914.4	918.2	965.4	1026.5	1062.9
15°	845.9	849.5	848.3	851.2	861.3	885.0	916.8	920.6	969.8	1042.8	1090.5
17.5°	896.0	899.0	889.2	877.9	873.2	890.7	924.2	928.3	978.7	1059.7	1118.7
20°	969.8	977.8	956.5	931.3	908.5	910.8	939.6	944.0	991.2	1076.6	1147.4
22.5°	1065.9	1071.8	1045.7	1004.2	962.1	940.5	962.7	965.4	1009.9	1098.5	1178.9
25°	1178.9	1182.4	1146.2	1092.9	1032.1	991.2	994.4	999.2	1040.7	1123.4	1206.7
27.5°	1288.6	1299.8	1258.0	1192.8	1112.7	1044.5	1038.0	1041.0	1074.2	1137.4	1226.0
30°	1418.7	1417.8	1373.7	1298.0	1195.5	1102.7	1079.2	1078.6	1092.3	1144.2	1239.9
32.5°	1522.5	1534.7	1491.4	1408.9	1290.0	1162.8	1107.7	1106.5	1106.2	1156.0	1260.7
35°	1640.5	1642.3	1602.5	1519.5	1392.3	1238.5	1147.4	1141.5	1134.7	1181.5	1288.9
37.5°	1746.1	1754.4	1717.9	1624.8	1492.8	1317.0	1202.0	1198.1	1177.4	1225.7	1333.9
40°	1828.5	1834.7	1812.8	1724.1	1591.9	1401.8	1271.4	1264.2	1239.0	1298.0	1394.1
42.5°	1855.5	1868.2	1876.8	1833.2	1705.7	1502.3	1356.8	1347.9	1328.6	1407.8	1463.5
45°	1857.5	1877.7	1923.1	1925.1	1820.2	1622.7	1456.4	1450.2	1448.7	1548.3	1561.0
47.5°	1841.8	1862.3	1938.5	1979.7	1922.2	1744.3	1600.2	1590.4	1591.3	1722.0	1670.4
50°	1803.9	1828.2	1920.7	2014.7	2001.9	1870.6	1752.0	1748.7	1767.1	1920.4	1784.0
52.5°	1732.4	1761.8	1902.3	2036.6	2061.2	1979.4	1924.5	1915.3	1961.9	2135.6	1908.2
55°	1534.7	1578.8	1835.0	2048.8	2117.6	2083.5	2079.9	2096.5	2158.2	2370.5	2044.9
57.5°	1431.5	1464.7	1688.8	2050.8	2188.7	2204.4	2261.4	2265.5	2373.4	2619.8	2199.4
60°	1375.1	1404.5	1608.8	2037.2	2288.0	2354.2	2447.0	2461.8	2583.6	2889.9	2359.5
62.5°	1325.9	1351.1	1560.7	1990.1	2400.1	2576.2	2687.4	2694.5	2822.3	3188.2	2517.5
65°	1210.0	1238.8	1464.1	1942.9	2496.8	2853.8	3006.4	2998.1	3076.4	3445.6	2616.6
67.5°	1053.7	1090.2	1283.5	1780.1	2544.5	3157.1	3365.8	3355.4	3327.3	3614.3	2645.0
70°	854.2	873.8	1052.6	1498.8	2353.9	3316.3	3649.5	3638.6	3482.6	3636.5	2510.4
71°	735.0	765.5	916.5	1331.3	2195.2	3267.7	3686.0	3683.0	3482.9	3575.1	2409.0
72.5°	573.7	592.4	725.8	1031.5	1865.8	2991.3	3595.9	3607.1	3407.3	3404.6	2200.0
75°	362.9	371.2	455.4	607.2	1023.8	2118.4	3069.6	3100.1	3025.4	2786.7	1636.1
77.5°	210.8	221.5	272.8	357.9	442.4	1149.8	2196.4	2229.6	2102.1	1534.4	669.8
80°	122.7	134.6	179.7	207.8	203.1	426.7	1118.4	1175.0	910.2	387.5	188.0
82.5°	68.2	76.2	126.3	126.6	108.2	139.4	351.9	368.2	259.7	156.3	76.8
85°	49.5	56.0	81.5	73.8	51.9	59.9	122.5	128.4	105.0	65.8	24.9
87.5°	17.5	24.9	44.8	35.6	14.2	12.5	35.3	28.8	26.7	18.4	5.6
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°	979.3	979.3	979.3	979.3	979.3	979.3	979.3	979.3	979.3	979.3	979.3
2.5°	984.7	985.2	982.3	976.9	971.6	964.8	957.1	951.2	948.5	948.2	947.9
5°	995.3	996.8	985.5	968.9	950.6	928.0	908.8	886.8	881.2	872.3	875.0
7.5°	1012.5	1011.6	989.4	954.1	911.1	863.4	823.1	799.6	775.3	768.5	768.8
10°	1037.1	1031.5	989.4	923.9	852.1	781.3	724.9	689.3	670.1	654.1	648.1
12.5°	1063.2	1049.0	979.9	881.5	776.2	689.3	628.9	580.8	568.4	555.3	555.6
15°	1088.1	1064.4	961.2	821.9	694.4	591.2	532.5	503.7	499.9	501.4	501.1
17.5°	1110.7	1075.4	932.8	755.5	598.9	507.0	475.9	477.9	488.3	495.7	496.6
20°	1133.5	1081.9	890.4	666.5	508.8	456.0	457.2	473.5	489.2	499.3	500.8
22.5°	1155.1	1084.9	840.6	580.5	443.6	434.4	451.9	469.3	484.8	494.6	496.0
25°	1169.4	1078.1	770.0	490.7	411.5	426.7	445.0	459.9	472.9	483.0	485.4
27.5°	1173.2	1056.1	682.5	418.1	396.7	419.2	436.1	447.1	457.2	466.7	468.5
30°	1171.2	1023.8	586.5	375.4	388.1	410.6	423.7	431.7	443.9	451.3	452.7
32.5°	1167.9	986.1	486.2	352.5	381.0	402.6	410.3	417.5	417.2	414.2	416.3
35°	1169.1	941.1	405.0	338.9	374.8	396.7	403.2	394.3	368.8	367.7	366.5
37.5°	1175.3	896.6	346.0	329.4	371.5	395.8	399.4	358.5	335.9	325.6	322.9
40°	1191.3	844.7	307.2	322.3	371.2	402.6	381.9	340.4	297.1	276.9	275.4
42.5°	1212.7	793.7	283.4	317.8	374.8	413.0	374.8	314.9	267.7	255.9	254.1
45°	1244.4	735.3	270.4	315.8	380.1	416.9	372.4	296.2	255.9	246.4	246.4
47.5°	1280.3	679.6	263.3	314.3	386.9	414.2	351.3	290.3	250.2	251.4	257.1
50°	1315.8	631.2	257.9	311.0	392.9	412.7	342.7	290.0	251.7	266.8	276.9
52.5°	1357.1	597.1	251.4	305.7	392.9	403.2	340.1	295.9	255.9	260.3	264.8
55°	1406.9	586.5	243.1	294.1	385.7	379.5	338.6	304.5	258.8	248.5	250.2
57.5°	1472.7	603.7	235.1	279.6	369.4	354.9	338.0	306.9	252.0	243.4	241.6
60°	1549.2	637.8	232.7	264.8	347.2	333.9	334.4	300.1	242.5	233.6	235.1
62.5°	1602.8	658.2	231.3	253.5	322.9	310.7	325.8	291.7	238.4	230.7	232.2
65°	1602.8	633.3	217.6	236.3	291.5	282.9	315.5	281.4	233.0	224.1	222.7
67.5°	1542.1	560.7	196.9	210.5	256.8	251.1	300.9	268.9	225.0	218.2	214.7
70°	1383.7	425.2	170.8	180.3	212.9	217.9	282.3	252.0	211.7	203.4	198.1
71°	1314.1	370.3	159.8	164.9	196.0	203.4	273.4	244.9	205.8	193.9	184.4
72.5°	1179.7	311.9	143.2	145.3	167.5	180.9	254.7	231.3	194.5	177.6	166.9
75°	896.3	227.7	115.3	114.2	123.9	143.5	215.6	206.1	170.5	147.7	141.4
77.5°	387.2	123.9	86.3	87.2	84.2	108.8	169.6	177.0	146.2	120.1	114.4
80°	117.4	71.5	59.0	60.2	56.3	72.9	119.5	138.8	117.4	93.4	85.7
82.5°	60.2	42.7	40.3	39.7	35.9	41.2	72.3	94.9	83.9	58.4	51.6
85°	26.1	22.8	19.9	19.3	16.9	14.8	25.8	47.4	44.5	32.6	31.1
87.5°	6.5	5.9	3.9	3.6	2.1	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)