

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: P458517

Luminaire Tested: **GALN-SA1A-735-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458517
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1A-735-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4353 lumens
Efficiency: N/A
Efficacy: 131.9 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

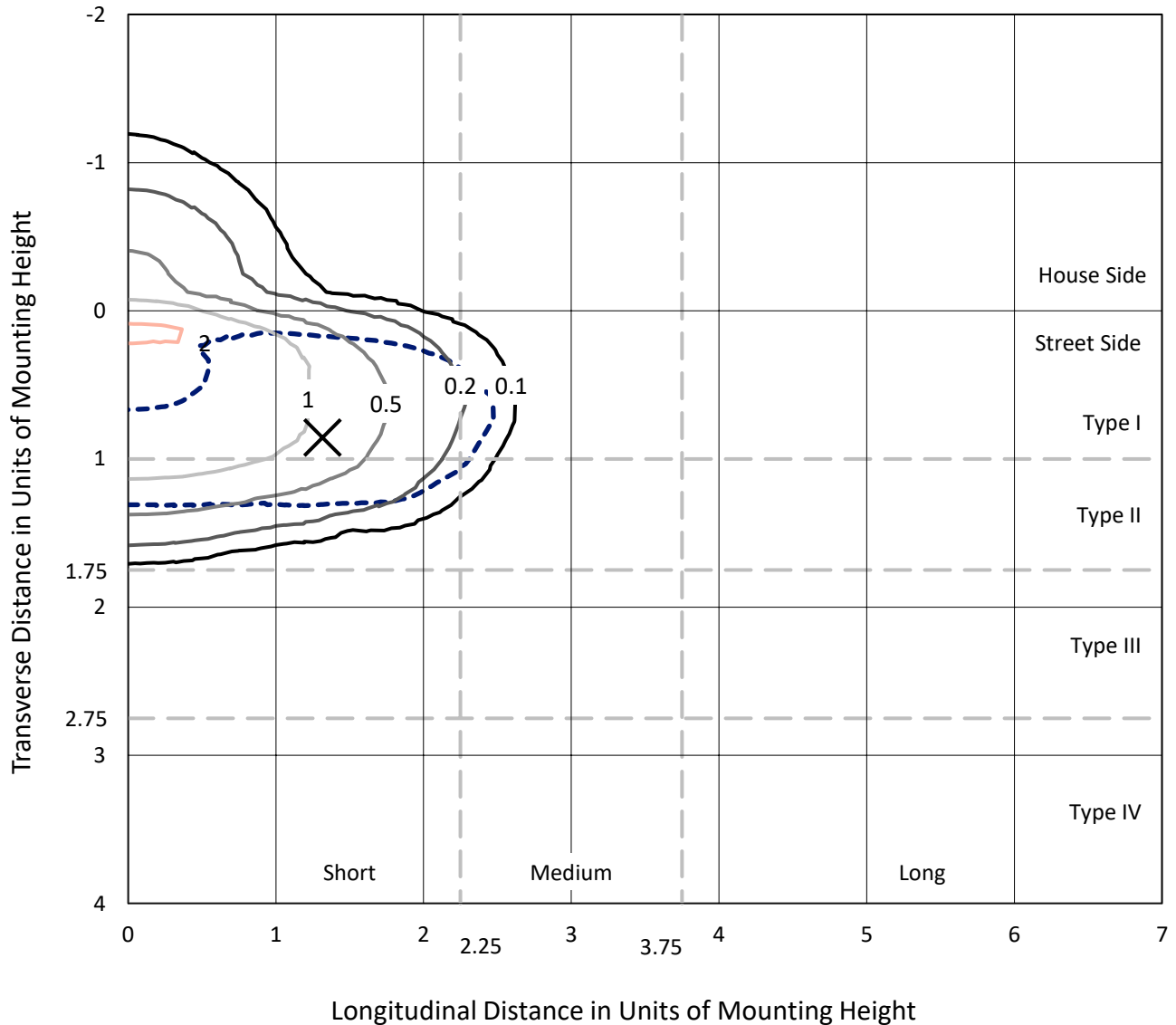
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

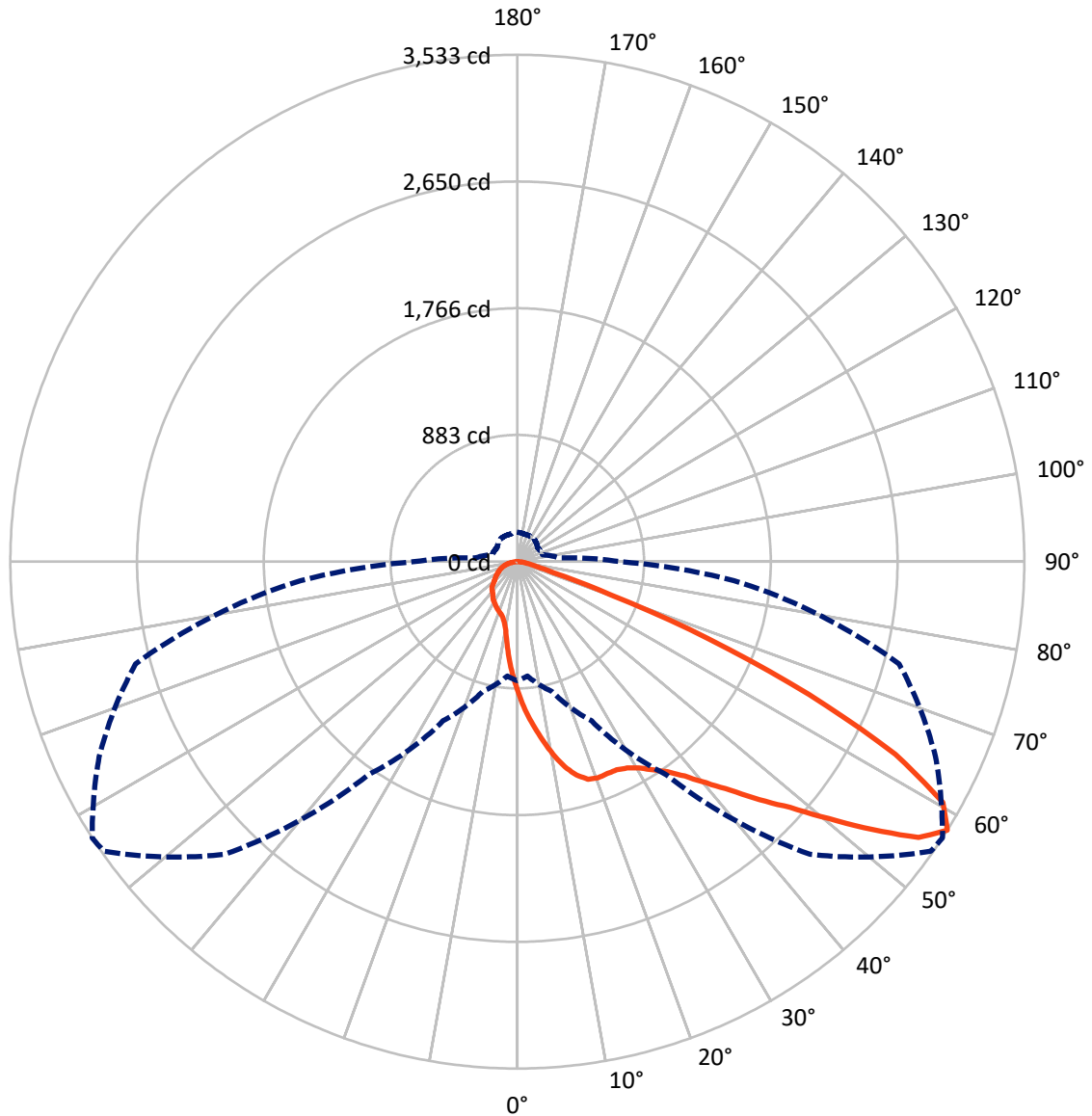
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	662.0	0.0	662.0
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	3691.0	0.0	3691.0
	% Fixture	84.8	0.0	84.8
Total	Lumens	4353.0	0.0	4353.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.9	2.0
10°-20°	259.0	6.0
20°-30°	430.1	9.9
30°-40°	647.9	14.9
40°-50°	972.7	22.3
50°-60°	1090.3	25.0
60°-70°	638.1	14.7
70°-80°	188.7	4.3
80°-90°	38.1	0.9
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°	4353.0	100.0
0°-180°	4353.0	100.0

Coefficient of Utilization



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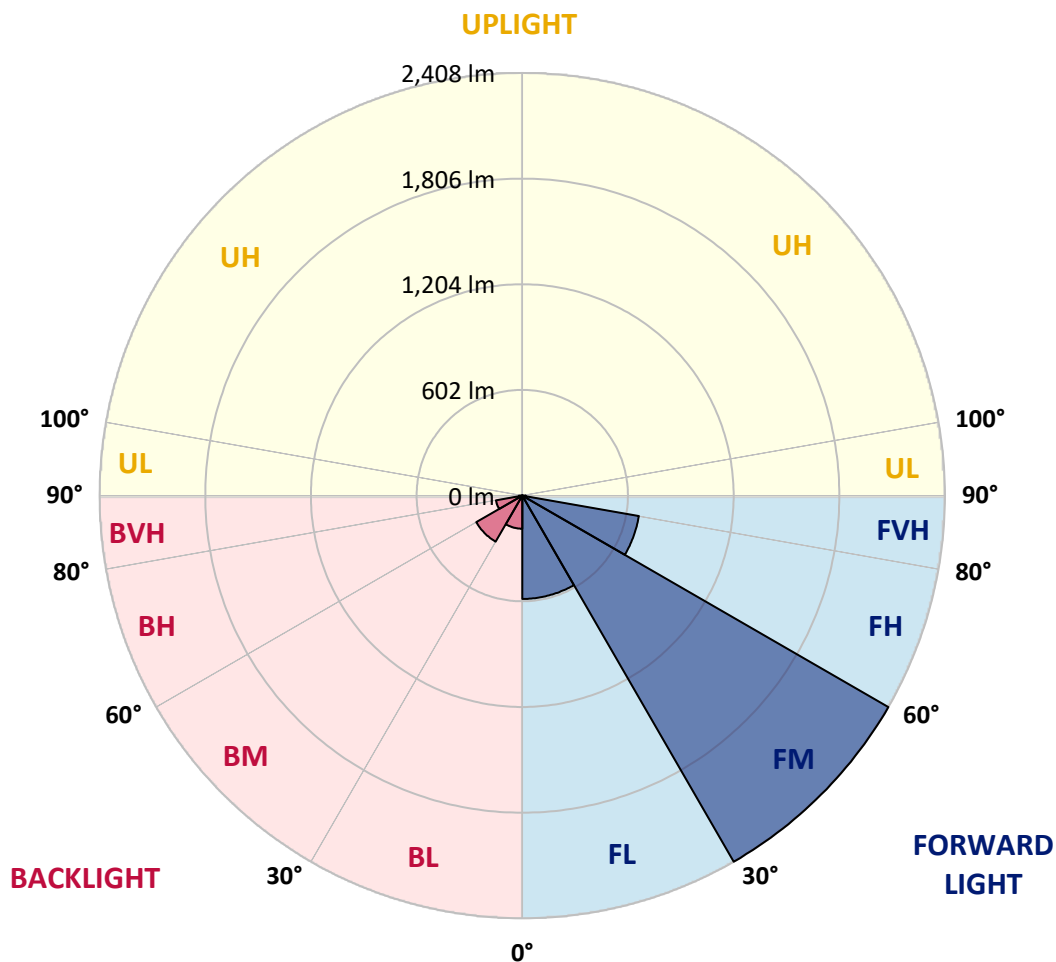
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	588.4	13.5			
FM	(30°-60°)	2408.3	55.3			
FH	(60°-80°)	674.5	15.5			G1/1800
FVH	(80°-90°)	19.8	0.5			G1/100
BL	(0°-30°)	188.6	4.3	B1/500		
BM	(30°-60°)	302.7	7.0	B1/1000		
BH	(60°-80°)	152.3	3.5	B1/500		G1/500
BVH	(80°-90°)	18.4	0.4			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°	57°	65°	75°	85°
0°	914.5	914.5	914.5	914.5	914.5	914.5	914.5	914.5	914.5	914.5	914.5
2.5°	1136.4	1124.0	1114.2	1105.6	1094.4	1064.2	1033.9	1033.4	1009.4	972.2	934.1
5°	1321.5	1304.8	1307.0	1280.3	1253.6	1209.7	1145.6	1142.3	1091.1	1021.5	950.7
7.5°	1442.1	1442.3	1435.6	1420.4	1391.6	1341.8	1269.1	1252.6	1181.4	1075.8	969.8
10°	1435.9	1442.3	1453.5	1466.6	1475.4	1450.9	1384.6	1364.6	1271.9	1141.6	991.0
12.5°	1353.4	1363.4	1379.4	1412.3	1465.4	1505.9	1483.3	1467.1	1376.8	1207.1	1014.4
15°	1302.0	1307.9	1316.7	1338.9	1396.1	1493.1	1551.7	1543.1	1475.7	1281.2	1040.6
17.5°	1286.2	1292.2	1295.0	1308.6	1349.4	1448.7	1578.6	1593.8	1563.3	1349.4	1067.0
20°	1302.0	1304.8	1304.8	1312.9	1344.8	1422.8	1577.4	1608.1	1635.3	1431.1	1091.8
22.5°	1343.2	1344.4	1342.7	1345.6	1369.4	1429.9	1566.2	1604.3	1693.5	1500.4	1111.1
25°	1410.1	1412.0	1401.1	1394.4	1411.8	1461.4	1572.4	1607.4	1739.0	1566.7	1124.0
27.5°	1486.1	1488.5	1475.2	1459.7	1467.8	1500.2	1596.7	1628.2	1773.0	1632.0	1132.1
30°	1579.3	1580.3	1557.9	1539.3	1534.0	1558.1	1638.2	1667.5	1815.4	1708.9	1144.2
32.5°	1674.6	1681.8	1652.9	1626.7	1617.9	1625.3	1699.4	1727.8	1866.0	1791.6	1163.8
35°	1804.2	1805.4	1770.9	1739.0	1709.9	1719.4	1777.8	1798.3	1935.8	1887.2	1191.4
37.5°	1966.0	1977.0	1929.3	1869.8	1834.0	1820.2	1872.6	1895.0	2033.7	2004.4	1233.1
40°	2145.7	2149.8	2109.0	2071.8	2006.5	1966.5	2002.7	2027.0	2154.5	2144.3	1281.5
42.5°	2258.6	2267.5	2270.6	2266.7	2217.7	2150.5	2164.3	2175.7	2297.5	2275.6	1331.0
45°	2296.8	2309.9	2354.2	2448.1	2453.3	2387.1	2354.9	2365.9	2453.3	2408.0	1378.4
47.5°	2233.6	2256.0	2337.8	2530.3	2674.4	2679.4	2582.5	2558.4	2595.3	2517.9	1412.8
50°	2070.4	2075.2	2200.3	2479.1	2778.1	2959.0	2858.6	2813.8	2730.2	2599.1	1436.3
52.5°	1817.8	1823.3	1928.2	2241.0	2714.2	3154.3	3181.7	3101.7	2867.2	2662.3	1451.8
55°	1349.4	1381.1	1496.4	1798.8	2411.6	3136.0	3438.6	3393.1	3032.8	2712.3	1476.1
57.5°	829.7	800.6	937.4	1223.8	1813.8	2883.9	3518.0	3532.7	3215.1	2754.3	1516.9
60°	381.7	387.4	443.9	631.2	1105.6	2256.0	3313.5	3406.9	3315.9	2752.8	1527.1
62.5°	263.1	257.8	243.5	277.1	504.2	1426.8	2798.8	2957.0	3113.8	2667.3	1486.4
65°	235.2	229.9	202.3	193.0	231.6	621.9	2034.7	2234.3	2621.8	2451.4	1384.9
67.5°	219.7	212.5	184.0	165.8	165.4	247.6	1199.7	1440.2	1944.6	2072.6	1200.0
70°	203.5	197.8	169.4	149.4	140.8	155.6	527.3	690.3	1262.6	1493.5	934.8
72.5°	187.3	180.6	155.1	133.7	122.5	116.5	202.1	262.8	713.4	895.5	573.1
75°	163.7	160.4	138.7	121.0	108.9	94.1	128.2	146.3	341.2	411.3	287.6
77.5°	143.2	139.6	123.2	105.8	97.0	76.5	91.0	99.4	143.9	166.8	129.9
80°	104.8	108.4	103.9	93.4	86.5	60.0	61.2	68.1	85.5	94.6	79.3
82.5°	66.5	73.2	80.1	72.0	65.5	47.4	42.4	45.0	58.4	62.0	35.3
85°	27.9	28.4	46.5	43.8	37.4	28.1	25.5	26.9	31.2	32.6	16.4
87.5°	10.7	10.5	16.4	15.2	11.7	8.1	8.1	9.1	12.4	11.4	5.2
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°	914.5	914.5	914.5	914.5	914.5	914.5	914.5	914.5	914.5	914.5	914.5
2.5°	917.6	900.7	867.1	825.4	794.9	760.6	730.3	708.6	700.5	696.7	689.6
5°	916.9	883.5	814.0	741.0	682.4	622.4	571.6	538.7	535.9	514.0	511.8
7.5°	917.1	866.1	755.3	648.1	558.8	497.3	455.4	444.4	431.3	427.9	429.6
10°	917.9	844.0	692.4	556.1	469.6	429.4	413.7	409.4	409.8	411.3	411.5
12.5°	918.8	822.5	627.2	486.3	419.6	402.9	401.3	405.1	409.1	412.2	412.9
15°	920.0	798.0	563.5	430.1	394.6	393.2	398.6	405.1	410.8	415.3	416.0
17.5°	918.6	769.4	510.2	395.5	380.8	387.7	396.7	404.8	410.1	414.4	414.8
20°	915.2	737.5	458.7	371.2	372.2	383.4	393.2	400.8	406.5	408.6	410.3
22.5°	902.4	699.3	413.9	352.4	361.9	377.4	389.1	393.6	387.2	382.7	383.9
25°	880.4	649.8	372.2	337.2	352.7	369.1	381.0	370.0	364.8	362.9	363.9
27.5°	853.0	595.5	340.7	321.2	340.7	359.8	356.5	354.6	352.2	349.1	349.8
30°	823.5	542.3	314.1	308.8	327.9	338.8	340.3	343.4	340.7	336.0	337.9
32.5°	796.1	492.3	293.8	298.3	318.8	317.1	327.9	331.4	319.3	303.3	304.0
35°	772.7	445.8	278.5	288.1	303.3	304.0	314.8	302.4	289.3	281.6	282.1
37.5°	755.1	409.6	268.5	279.3	283.6	292.6	286.9	280.5	278.8	273.5	273.8
40°	744.6	377.9	262.1	272.4	271.6	277.8	259.5	265.9	268.3	266.6	266.9
42.5°	734.1	355.5	255.4	262.8	262.6	250.4	246.4	251.9	258.1	258.8	258.3
45°	725.8	338.1	248.5	248.3	253.1	234.0	232.8	236.1	245.0	249.2	249.0
47.5°	716.5	323.6	238.0	231.4	232.8	223.7	221.8	223.3	234.0	240.9	242.8
50°	704.8	309.0	224.9	215.9	209.9	214.2	214.7	214.9	225.7	233.5	235.2
52.5°	695.5	298.1	209.9	203.3	196.1	205.6	209.2	209.7	216.1	222.6	223.7
55°	701.0	291.9	195.2	190.4	184.0	196.8	203.7	204.7	206.1	210.9	211.6
57.5°	717.5	293.3	183.2	177.0	172.3	186.3	198.0	198.7	197.8	203.5	204.4
60°	722.5	292.6	174.4	162.3	159.4	175.1	189.7	191.1	190.9	199.2	200.9
62.5°	701.5	283.6	165.6	149.9	148.0	163.7	178.0	183.7	184.9	196.8	199.0
65°	652.2	265.0	153.9	136.8	136.8	151.5	166.8	174.7	178.0	194.0	196.3
67.5°	587.1	243.0	142.0	125.6	125.1	139.9	154.9	163.0	168.2	189.9	191.3
70°	487.3	213.5	127.2	113.4	113.4	126.8	140.3	150.1	157.7	182.3	182.3
72.5°	333.8	177.5	109.4	99.6	99.8	112.2	126.0	137.0	146.1	167.0	167.5
75°	211.1	138.7	89.8	84.8	85.8	97.5	111.8	123.2	141.3	165.1	165.8
77.5°	112.2	97.5	71.5	70.3	71.5	82.2	98.2	113.9	141.8	143.2	140.8
80°	72.7	69.1	56.5	54.1	54.6	66.2	87.4	108.2	113.9	115.3	110.1
82.5°	39.6	43.8	40.0	37.6	37.6	51.7	74.6	86.0	81.7	67.9	64.8
85°	16.9	20.5	20.7	18.1	17.4	31.9	50.0	46.9	43.6	41.7	41.2
87.5°	4.8	6.7	6.7	5.0	3.8	8.8	10.0	2.9	0.0	0.2	0.5
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)