

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: P458533

Luminaire Tested: **GALN-SA1A-735-U-T2R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458533  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)  
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-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4393 lumens  
Efficiency: N/A  
Efficacy: 133.1 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

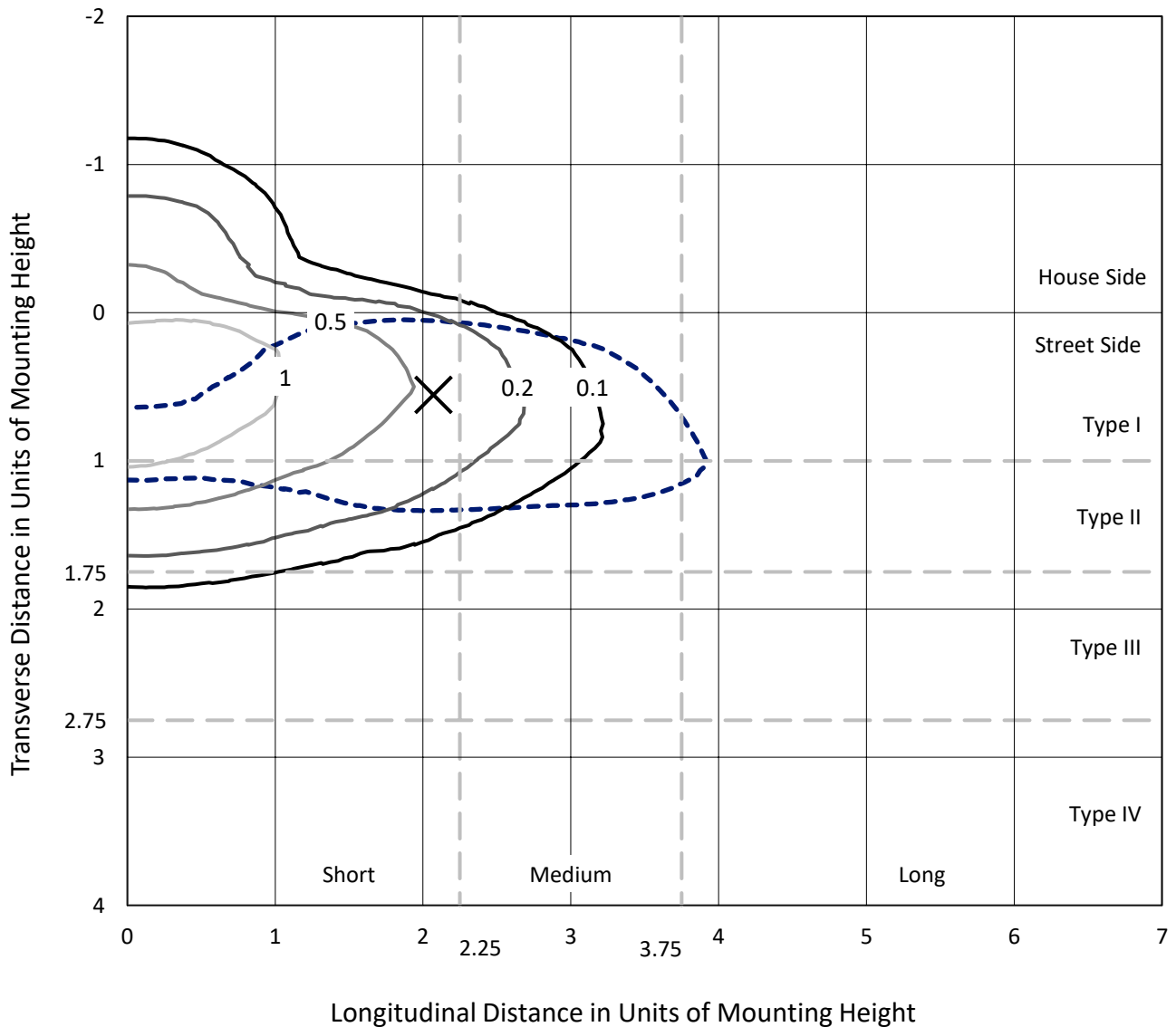
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

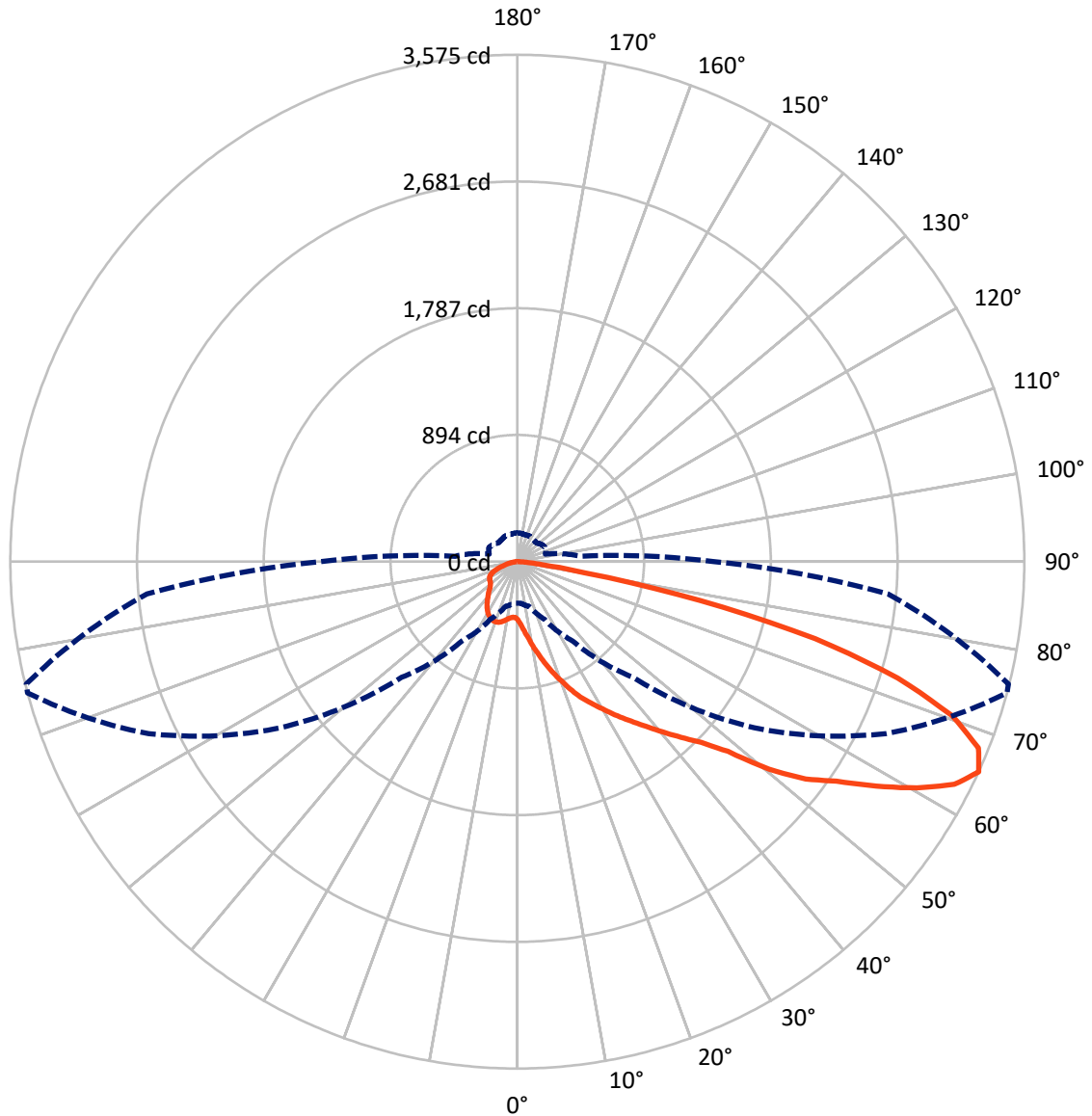
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	738.5	0.0	738.5
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	3654.5	0.0	3654.5
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	4393.0	0.0	4393.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.6	1.1
10°-20°	194.2	4.4
20°-30°	375.2	8.5
30°-40°	609.5	13.9
40°-50°	838.4	19.1
50°-60°	989.8	22.5
60°-70°	867.2	19.7
70°-80°	414.0	9.4
80°-90°	55.1	1.3
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°	4393.0	100.0
0°-180°	4393.0	100.0

**Coefficient of Utilization**



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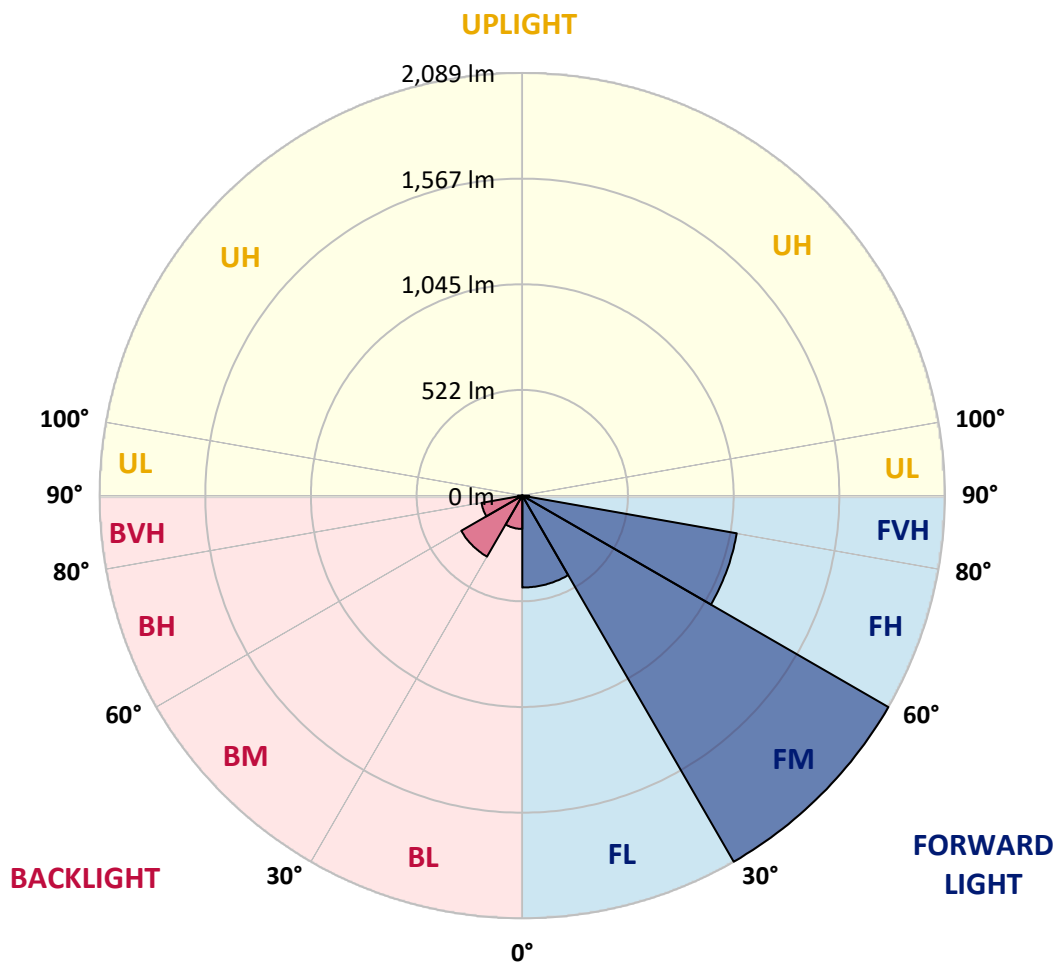
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	454.2	10.3			
FM (30°-60°)	2089.4	47.6			
FH (60°-80°)	1076.5	24.5			G1/1800
FVH (80°-90°)	34.4	0.8			G1/100
BL (0°-30°)	164.9	3.8	B1/500		
BM (30°-60°)	348.2	7.9	B1/1000		
BH (60°-80°)	204.8	4.7	B1/500		G1/500
BVH (80°-90°)	20.7	0.5			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°	75°	76°	85°
0°	408.2	408.2	408.2	408.2	408.2	408.2	408.2	408.2	408.2	408.2	408.2
2.5°	542.3	538.7	534.9	524.4	513.2	500.6	482.5	465.1	442.0	441.3	424.1
5°	692.7	690.3	673.4	663.6	637.6	603.1	573.8	528.3	486.1	481.1	447.7
7.5°	830.9	821.6	815.1	797.5	771.8	727.5	670.7	609.3	538.7	532.1	476.8
10°	935.0	934.0	930.7	915.5	896.2	852.1	789.2	701.0	605.5	592.4	512.1
12.5°	1012.9	1013.6	1013.1	1012.9	999.1	961.7	893.5	800.6	672.9	663.6	552.8
15°	1064.1	1071.3	1074.1	1086.1	1087.2	1062.2	1003.6	896.9	748.9	735.1	596.6
17.5°	1098.0	1101.5	1114.9	1135.1	1151.6	1147.1	1094.9	986.0	826.6	803.5	642.2
20°	1130.4	1136.6	1146.8	1174.5	1203.5	1216.9	1180.2	1077.2	903.5	888.8	692.4
22.5°	1197.8	1206.6	1210.2	1224.3	1249.0	1272.6	1255.9	1164.7	987.9	967.9	745.8
25°	1311.9	1321.2	1311.2	1307.9	1316.0	1327.7	1324.1	1247.1	1067.5	1038.9	796.3
27.5°	1460.6	1461.8	1442.3	1423.7	1403.7	1397.7	1386.8	1320.3	1136.6	1112.7	847.1
30°	1620.3	1614.6	1582.1	1548.5	1514.7	1481.4	1449.9	1390.8	1213.5	1186.1	896.9
32.5°	1768.5	1765.4	1729.4	1677.2	1620.0	1588.6	1525.0	1462.1	1296.0	1269.5	948.1
35°	1879.5	1884.0	1844.5	1787.5	1725.1	1697.2	1616.9	1536.9	1381.3	1352.4	1003.9
37.5°	1958.4	1956.0	1921.0	1871.7	1816.8	1792.5	1724.4	1618.6	1473.0	1445.4	1064.9
40°	1986.5	1985.1	1959.1	1923.1	1888.3	1879.8	1836.9	1706.8	1578.1	1545.7	1138.2
42.5°	1968.6	1971.7	1954.6	1944.8	1938.4	1944.6	1948.6	1822.3	1692.7	1662.9	1217.8
45°	1913.8	1912.2	1909.8	1925.7	1962.0	2002.7	2059.2	1931.5	1817.3	1793.5	1324.6
47.5°	1815.9	1827.8	1833.8	1877.8	1957.0	2053.5	2186.4	2077.8	1998.2	1977.4	1487.3
50°	1678.9	1688.4	1723.7	1802.1	1920.0	2072.5	2310.8	2317.0	2299.8	2261.0	1664.1
52.5°	1464.9	1479.7	1552.4	1696.0	1844.2	2064.7	2386.1	2522.1	2544.8	2515.7	1838.3
55°	1225.4	1246.2	1322.9	1511.4	1739.9	2021.8	2438.0	2641.0	2731.3	2704.4	2006.0
57.5°	991.0	1012.9	1091.8	1274.3	1557.8	1926.9	2472.1	2773.5	2985.3	2950.3	2214.8
60°	742.7	765.6	833.2	1021.2	1298.6	1741.6	2449.0	2888.4	3239.1	3224.1	2423.7
62.5°	479.2	504.4	563.3	718.9	998.1	1488.3	2325.3	2951.8	3458.8	3440.7	2576.2
65°	291.9	294.7	327.2	446.3	683.1	1152.3	2042.5	2867.6	3574.6	3569.1	2622.7
67.5°	188.7	193.2	208.0	267.3	409.6	800.4	1633.1	2590.0	3506.9	3505.0	2526.7
70°	159.4	160.8	167.5	180.4	238.0	485.4	1146.8	2147.6	3249.8	3249.8	2295.8
72.5°	142.5	144.4	146.8	150.8	169.9	275.0	684.3	1671.7	2805.9	2824.5	1954.1
75°	129.4	128.9	130.3	131.1	144.9	179.7	353.8	1236.4	2170.7	2133.5	1415.1
77.5°	110.8	111.5	110.8	113.9	128.0	136.8	179.7	829.7	1315.5	1267.4	710.3
80°	91.0	92.2	93.4	95.3	109.4	103.9	107.9	378.1	486.6	476.3	219.5
82.5°	68.4	70.1	72.0	76.5	86.0	68.6	68.1	161.6	175.6	160.8	80.8
85°	27.6	32.6	49.3	53.9	54.1	37.6	41.9	67.4	71.7	70.1	31.7
87.5°	6.4	7.6	16.0	24.1	22.2	14.1	15.5	21.9	25.0	23.1	10.7
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°	408.2	408.2	408.2	408.2	408.2	408.2	408.2	408.2	408.2	408.2	408.2
2.5°	416.3	407.9	393.6	382.7	374.8	367.9	363.6	361.0	360.0	359.8	360.0
5°	430.3	415.6	392.9	378.6	370.8	366.2	363.6	363.4	363.6	363.8	363.1
7.5°	449.6	428.4	398.9	385.5	379.6	376.2	375.0	374.6	374.8	374.6	374.6
10°	475.4	446.3	410.5	396.7	391.7	387.9	386.0	384.8	383.9	382.9	382.4
12.5°	503.7	466.1	423.2	409.8	402.7	396.7	392.4	389.3	387.2	385.1	384.6
15°	535.4	487.0	437.2	418.6	408.4	399.6	392.2	387.2	383.4	380.3	380.0
17.5°	565.7	506.8	446.8	422.7	407.7	395.3	385.5	378.6	373.9	369.8	369.3
20°	598.1	525.6	451.1	420.1	400.5	385.5	372.7	364.3	358.8	354.3	353.6
22.5°	630.7	541.6	450.6	411.7	388.2	370.5	356.9	348.1	341.7	337.2	335.5
25°	661.9	554.5	444.6	398.4	371.0	352.6	338.8	330.7	325.0	319.5	319.5
27.5°	690.0	562.1	433.4	382.2	353.4	334.1	323.1	315.7	310.5	306.9	304.8
30°	717.7	565.7	418.2	361.7	334.8	318.3	309.5	305.2	300.5	296.4	295.9
32.5°	742.5	565.0	399.1	341.7	317.1	305.5	301.9	298.6	293.6	287.8	286.4
35°	766.5	560.2	376.5	319.8	302.4	297.8	298.8	294.0	285.0	277.8	276.6
37.5°	792.7	551.6	351.7	301.9	290.0	294.3	296.7	286.2	271.4	260.2	257.6
40°	823.0	541.8	326.0	284.0	280.2	290.9	290.9	271.6	251.4	244.5	242.6
42.5°	858.5	533.7	304.5	269.0	272.1	282.8	281.6	252.3	244.0	240.4	239.5
45°	914.7	530.9	282.4	255.9	265.4	273.3	263.5	245.7	240.9	238.0	237.1
47.5°	1003.6	534.2	262.8	246.1	257.8	263.8	243.3	241.1	237.8	233.7	233.3
50°	1086.1	531.1	249.0	240.7	251.1	252.3	234.9	235.7	233.7	229.2	228.3
52.5°	1153.5	521.3	240.2	237.8	245.4	232.3	227.1	229.7	229.0	223.3	222.3
55°	1227.6	515.4	235.9	237.8	241.6	214.9	219.7	223.5	222.5	218.5	218.3
57.5°	1317.4	516.6	232.8	238.5	237.8	206.1	212.3	216.8	216.6	215.4	215.4
60°	1409.4	517.1	228.0	238.3	233.3	199.2	204.7	211.1	211.6	212.3	212.3
62.5°	1439.9	496.3	218.7	234.0	223.3	192.5	197.5	206.3	205.9	207.8	208.0
65°	1382.9	438.9	204.9	224.2	210.4	187.8	192.0	200.2	197.5	202.5	203.5
67.5°	1258.8	363.1	183.5	206.6	196.1	182.8	188.5	191.6	186.8	196.6	196.8
70°	1088.0	283.5	156.3	181.6	179.9	177.5	185.6	180.9	174.2	186.1	183.7
72.5°	909.7	216.6	124.9	148.4	158.2	169.7	180.6	167.0	157.7	161.3	157.0
75°	683.4	160.1	100.3	116.3	131.8	158.5	176.1	150.4	136.1	132.7	131.8
77.5°	348.4	104.6	75.1	87.0	98.9	143.2	169.9	130.8	112.7	107.5	105.1
80°	124.4	65.0	52.9	60.0	66.7	123.2	148.4	108.2	87.4	86.5	87.4
82.5°	57.7	41.9	35.5	39.3	39.6	82.2	113.2	80.8	66.5	101.0	85.3
85°	24.8	21.0	20.0	19.5	18.1	36.7	63.6	43.4	67.7	30.3	27.9
87.5°	7.4	8.3	7.4	5.5	4.1	4.1	6.4	2.4	1.7	1.2	1.2
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)