

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: P528867

Luminaire Tested: **GALN-SA4A-727-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528867
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-727-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9035 lumens
Efficiency: N/A
Efficacy: 74.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

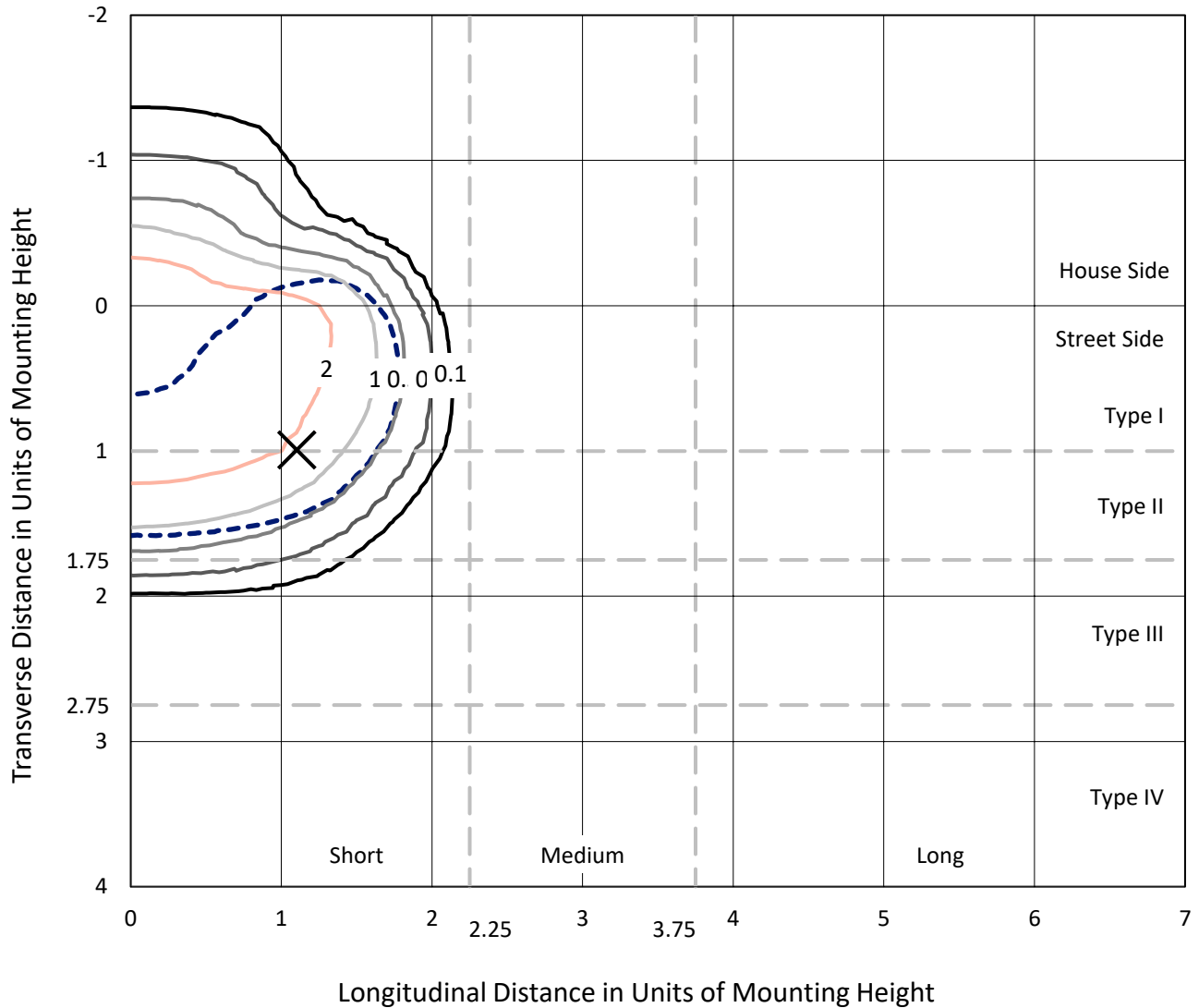
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

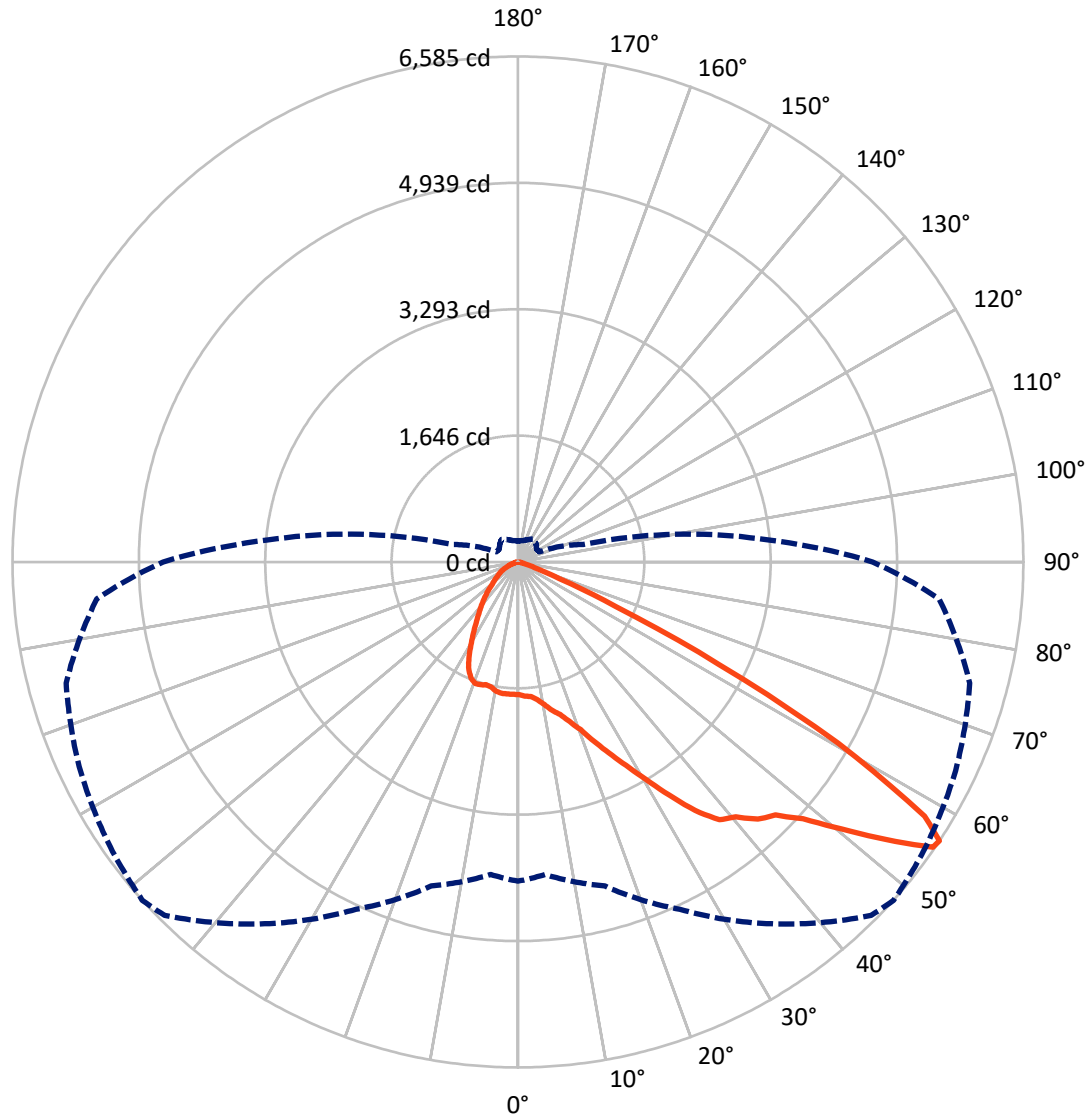
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1964.9	0.0	1964.9
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	7070.1	0.0	7070.1
	% Fixture	78.3	0.0	78.3
Total	Lumens	9035.0	0.0	9035.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.1	1.9
10°-20°	537.2	5.9
20°-30°	974.4	10.8
30°-40°	1530.6	16.9
40°-50°	2232.9	24.7
50°-60°	2690.2	29.8
60°-70°	787.7	8.7
70°-80°	99.9	1.1
80°-90°	14.0	0.2
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°	9035.0	100.0
0°-180°	9035.0	100.0

Coefficient of Utilization

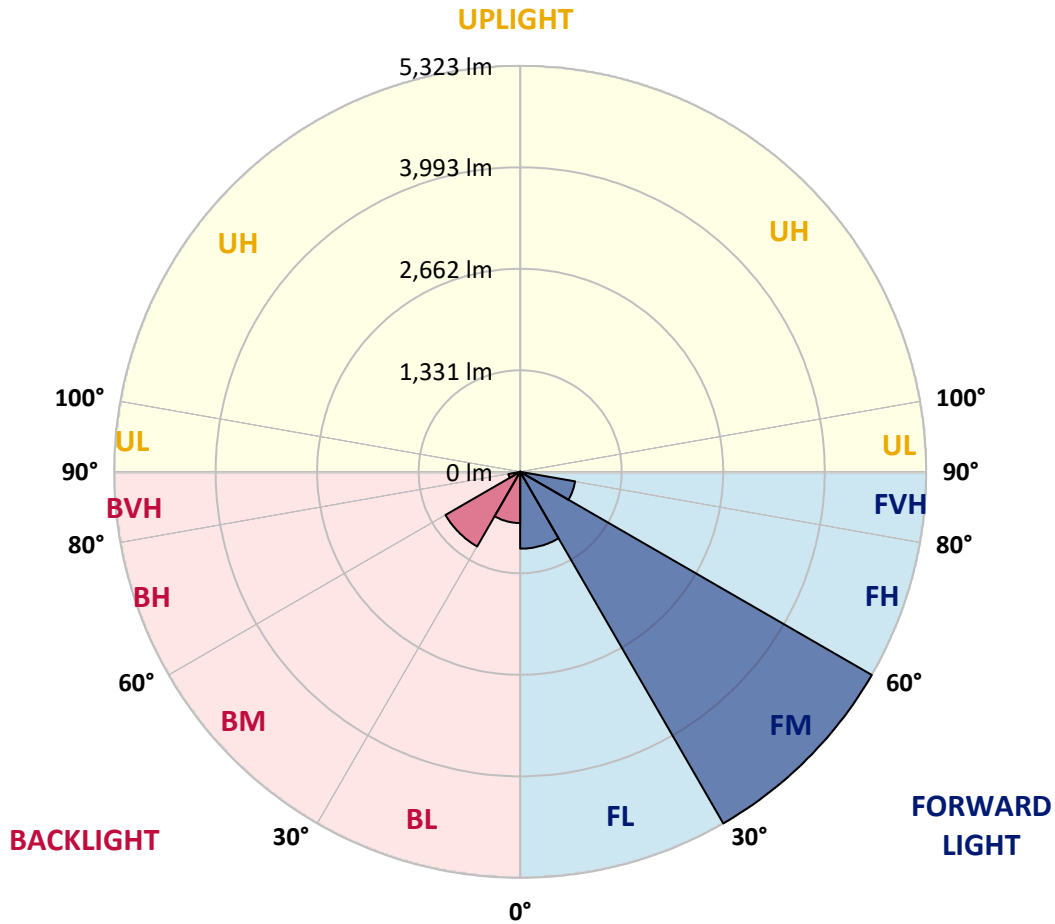


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1008.1	11.2			
FM (30°-60°)	5323.4	58.9			
FH (60°-80°)	731.4	8.1			G1/1800
FVH (80°-90°)	7.0	0.1			G0/10
BL (0°-30°)	671.6	7.4	B2/1000		
BM (30°-60°)	1130.2	12.5	B2/2500		
BH (60°-80°)	156.1	1.7	B1/500		G1/500
BVH (80°-90°)	7.0	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	1725.7	1725.7	1725.7	1725.7	1725.7	1725.7	1725.7	1725.7	1725.7	1725.7	1725.7
2.5°	1756.9	1748.7	1748.7	1735.6	1750.4	1743.8	1748.7	1732.3	1748.7	1724.0	1743.8
5°	1765.2	1766.8	1760.2	1768.5	1768.5	1778.3	1761.9	1776.7	1784.9	1766.8	1758.6
7.5°	1807.9	1811.2	1809.6	1803.0	1816.2	1814.5	1812.9	1801.4	1804.7	1798.1	1788.2
10°	1891.8	1890.2	1898.4	1882.0	1872.1	1883.6	1886.9	1868.8	1855.7	1850.7	1819.5
12.5°	2013.6	1993.8	1982.3	1965.9	1970.8	1954.4	1984.0	1952.7	1946.1	1916.5	1885.3
15°	2112.3	2109.0	2110.6	2084.3	2054.7	2061.3	2061.3	2044.8	2035.0	1998.8	1954.4
17.5°	2314.6	2245.5	2260.3	2227.4	2202.8	2201.1	2186.3	2189.6	2163.3	2087.6	2020.2
20°	2472.6	2442.9	2419.9	2364.0	2326.1	2337.7	2331.1	2314.6	2306.4	2207.7	2112.3
22.5°	2614.0	2623.9	2586.1	2571.3	2518.6	2523.6	2536.7	2521.9	2459.4	2357.4	2215.9
25°	2813.1	2801.6	2750.6	2732.5	2683.1	2701.2	2752.2	2740.7	2701.2	2517.0	2296.5
27.5°	3048.3	3008.9	3018.7	2936.5	2888.8	2939.8	3000.6	3058.2	2946.3	2704.5	2391.9
30°	3214.5	3173.4	3170.1	3166.8	3155.3	3214.5	3285.2	3337.9	3247.4	2892.1	2549.9
32.5°	3296.7	3306.6	3334.6	3324.7	3425.1	3546.8	3620.8	3696.5	3583.0	3198.0	2758.8
35°	3515.5	3453.0	3515.5	3522.1	3625.8	3884.0	3977.8	4158.8	4130.8	3630.7	3013.8
37.5°	3643.9	3638.9	3647.1	3709.7	3810.0	4129.2	4262.4	4402.2	4349.6	3890.6	3331.3
40°	3856.1	3869.2	3867.6	3915.3	4025.5	4313.4	4367.7	4481.2	4486.1	4250.9	3798.5
42.5°	4196.6	4144.0	4109.4	4158.8	4313.4	4473.0	4581.5	4558.5	4721.4	4688.5	4398.9
45°	4502.6	4533.8	4482.8	4565.1	4621.0	4706.6	4703.3	4752.6	4959.9	5116.2	4851.3
47.5°	4788.8	4808.6	4833.2	4889.2	5010.9	5024.1	4996.1	4974.7	5261.0	5422.2	5201.7
50°	4959.9	4978.0	5093.2	5193.5	5420.5	5450.1	5466.6	5412.3	5606.4	5624.5	5532.4
52.5°	4913.9	4933.6	5094.8	5425.5	5787.4	6058.8	6009.5	5917.4	5905.8	5976.6	5838.4
55°	4505.9	4487.8	4709.9	5224.8	5902.5	6554.0	6560.6	6463.5	6277.6	6229.9	5792.3
56°	4158.8	4088.0	4371.0	4992.8	5754.5	6511.2	6585.3	6481.6	6307.2	6093.4	5507.7
57.5°	3407.0	3474.4	3755.7	4270.6	5242.9	6203.6	6246.4	6221.7	6090.1	5731.5	4846.4
60°	1878.7	1997.1	2245.5	2875.6	3732.7	4760.9	4795.4	4996.1	5020.8	4389.1	3334.6
62.5°	797.9	784.7	1043.0	1506.9	2125.4	2874.0	2938.1	3143.7	3181.6	2530.1	1673.0
65°	324.1	342.2	472.1	758.4	1123.6	1309.5	1400.0	1467.4	1592.4	1044.6	616.9
67.5°	213.9	212.2	278.0	432.7	605.4	584.0	584.0	616.9	570.8	426.1	266.5
70°	153.0	157.9	199.1	299.4	376.7	279.7	268.1	256.6	291.2	281.3	215.5
72.5°	100.3	106.9	133.3	179.3	195.8	153.0	153.0	184.2	240.2	227.0	176.0
75°	65.8	67.4	82.3	103.6	97.1	79.0	87.2	123.4	174.4	167.8	125.0
77.5°	44.4	46.1	55.9	67.4	54.3	44.4	47.7	62.5	85.5	85.5	65.8
80°	16.5	18.1	23.0	21.4	24.7	31.3	34.5	42.8	51.0	51.0	44.4
82.5°	0.0	1.6	4.9	11.5	18.1	24.7	28.0	32.9	37.8	42.8	41.1
85°	0.0	1.6	4.9	8.2	13.2	14.8	16.5	11.5	9.9	9.9	8.2
87.5°	0.0	0.0	1.6	1.6	1.6	1.6	1.6	1.6	3.3	1.6	1.6
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°	1725.7	1725.7	1725.7	1725.7	1725.7	1725.7	1725.7	1725.7	1725.7	1725.7	1725.7
2.5°	1725.7	1724.0	1724.0	1719.1	1729.0	1724.0	1727.3	1725.7	1704.3	1720.8	1709.2
5°	1743.8	1755.3	1737.2	1733.9	1720.8	1725.7	1725.7	1709.2	1724.0	1722.4	1719.1
7.5°	1789.8	1770.1	1750.4	1730.6	1727.3	1722.4	1704.3	1697.7	1709.2	1696.1	1715.8
10°	1809.6	1812.9	1783.3	1756.9	1732.3	1697.7	1673.0	1658.2	1640.1	1659.9	1671.4
12.5°	1900.1	1867.2	1816.2	1775.0	1691.1	1656.6	1631.9	1625.3	1656.6	1663.2	1651.7
15°	1931.3	1926.4	1860.6	1768.5	1681.3	1640.1	1645.1	1631.9	1635.2	1618.8	1622.0
17.5°	1995.5	1939.5	1862.2	1747.1	1679.6	1669.8	1640.1	1587.5	1557.9	1544.7	1556.2
20°	2066.2	2011.9	1900.1	1755.3	1694.4	1668.1	1571.1	1506.9	1446.0	1413.1	1414.8
22.5°	2128.7	2061.3	1883.6	1758.6	1707.6	1599.0	1482.2	1355.5	1279.9	1228.9	1230.5
25°	2204.4	2109.0	1890.2	1765.2	1673.0	1488.8	1321.0	1197.6	1107.1	1072.6	1084.1
27.5°	2247.2	2138.6	1926.4	1780.0	1582.6	1332.5	1151.6	1036.4	983.8	967.3	965.7
30°	2375.5	2204.4	1970.8	1750.4	1431.2	1164.7	996.9	926.2	875.2	860.4	863.7
32.5°	2566.3	2324.5	2028.4	1673.0	1276.6	1015.0	896.6	843.9	796.2	768.3	765.0
35°	2725.9	2530.1	2089.3	1553.0	1097.3	899.9	825.8	760.0	687.6	656.4	648.2
37.5°	3030.2	2762.1	2076.1	1372.0	926.2	814.3	750.2	669.5	607.0	564.3	559.3
40°	3434.9	3033.5	2011.9	1151.6	799.5	738.6	669.5	592.2	514.9	478.7	475.4
42.5°	3926.8	3365.8	1895.1	927.8	672.8	663.0	600.5	511.6	442.5	416.2	417.9
45°	4326.6	3650.4	1776.7	745.2	579.1	588.9	534.7	450.8	403.0	381.7	381.7
47.5°	4681.9	3842.9	1648.4	615.3	491.9	514.9	467.2	417.9	376.7	360.3	357.0
50°	5024.1	4038.7	1520.1	498.5	419.5	442.5	437.6	398.1	365.2	345.5	347.1
52.5°	5237.9	4069.9	1357.2	408.0	366.9	393.2	409.6	373.4	337.2	325.7	322.4
55°	4976.4	3666.9	1052.9	335.6	310.9	345.5	376.7	335.6	307.6	287.9	286.2
56°	4624.3	3278.6	880.1	309.3	294.5	332.3	365.2	320.8	289.5	278.0	269.8
57.5°	3915.3	2683.1	649.8	274.7	273.1	309.3	347.1	306.0	269.8	259.9	259.9
60°	2441.3	1510.2	393.2	230.3	236.9	274.7	312.6	273.1	240.2	240.2	245.1
62.5°	1112.1	628.4	238.5	195.8	204.0	236.9	278.0	246.8	228.7	246.8	250.1
65°	378.4	271.4	172.7	156.3	161.2	195.8	238.5	250.1	248.4	259.9	266.5
67.5°	212.2	174.4	144.8	130.0	126.7	144.8	195.8	250.1	240.2	235.2	238.5
70°	179.3	148.1	128.3	115.2	110.2	116.8	151.3	189.2	169.4	164.5	161.2
72.5°	144.8	123.4	111.9	103.6	88.8	75.7	69.1	72.4	80.6	85.5	93.8
75°	102.0	93.8	93.8	83.9	64.2	47.7	37.8	31.3	21.4	14.8	16.5
77.5°	57.6	57.6	59.2	51.0	41.1	31.3	23.0	16.5	8.2	3.3	1.6
80°	39.5	42.8	46.1	41.1	34.5	28.0	19.7	11.5	4.9	0.0	0.0
82.5°	39.5	44.4	47.7	41.1	34.5	26.3	19.7	11.5	4.9	1.6	0.0
85°	8.2	9.9	11.5	13.2	19.7	19.7	14.8	9.9	4.9	1.6	0.0
87.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	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)