

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: P527959

Luminaire Tested: **GALN-SA3A-730-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527959
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-730-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7561 lumens
Efficiency: N/A
Efficacy: 81.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G0

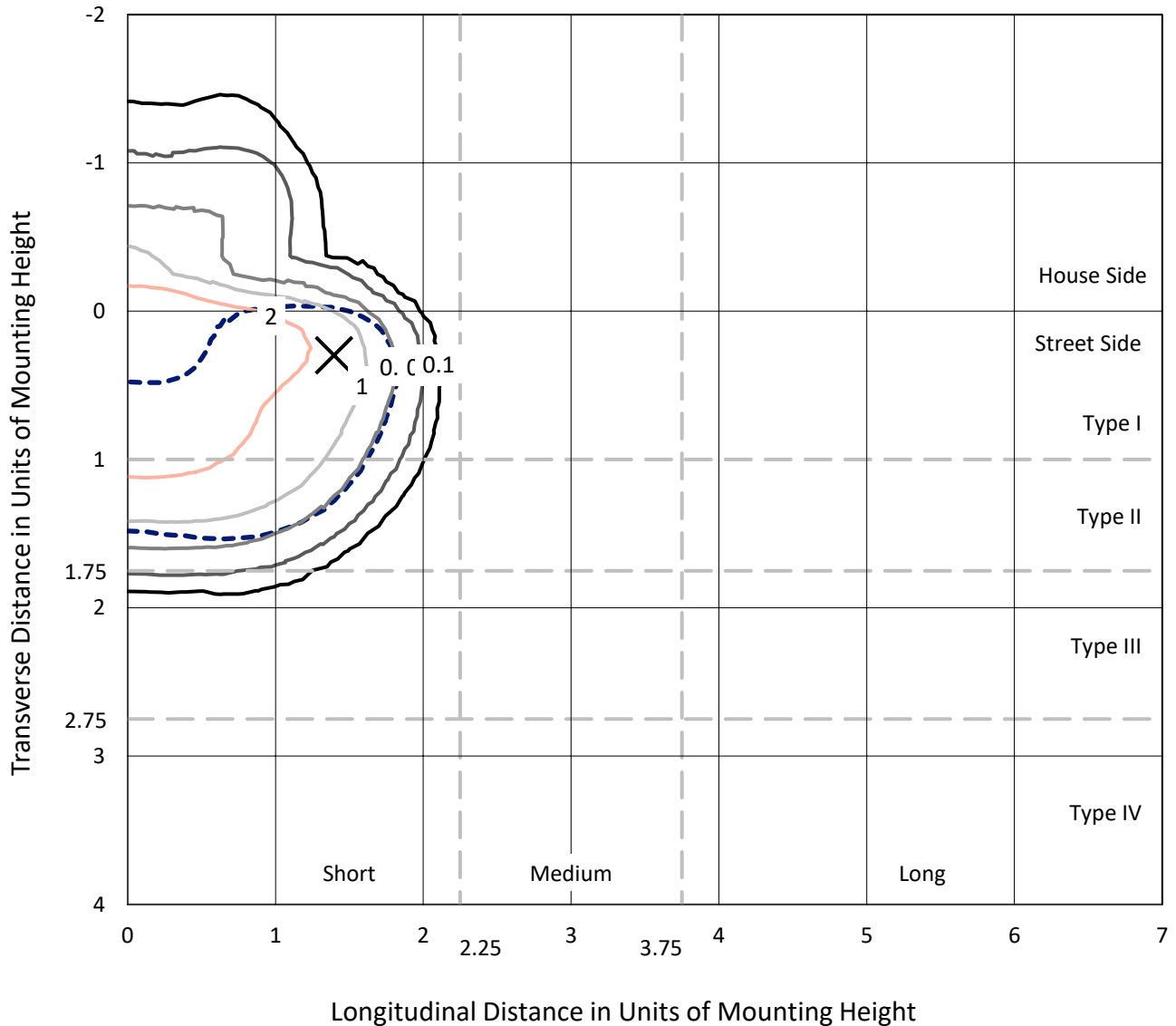
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

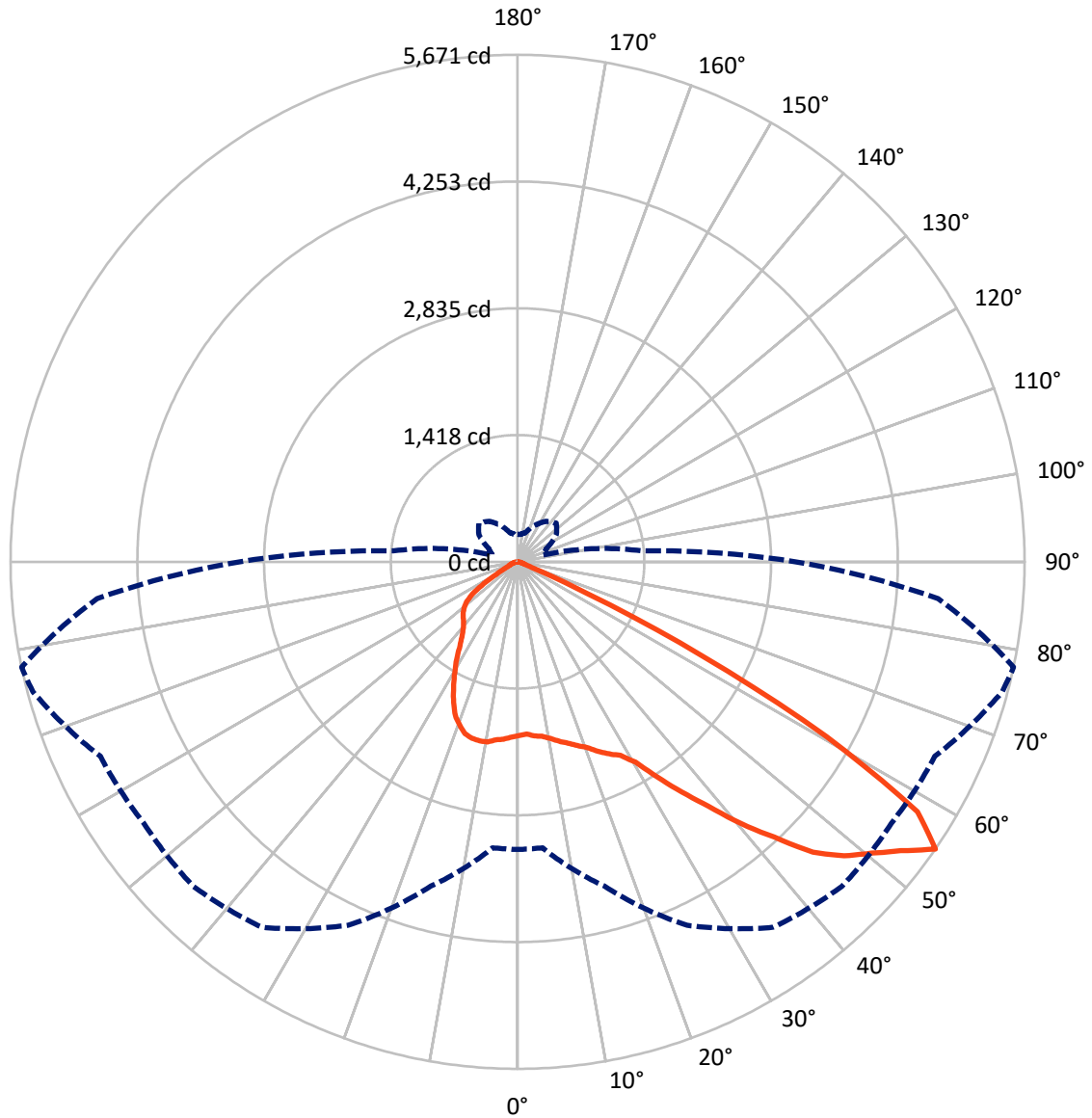
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1404.4	0.0	1404.4
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	6156.6	0.0	6156.6
	% Fixture	81.4	0.0	81.4
Total	Lumens	7561.0	0.0	7561.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.3	2.3
10°-20°	458.7	6.1
20°-30°	804.1	10.6
30°-40°	1325.8	17.5
40°-50°	1929.3	25.5
50°-60°	2186.1	28.9
60°-70°	625.0	8.3
70°-80°	48.5	0.6
80°-90°	10.1	0.1
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°	7561.0	100.0
0°-180°	7561.0	100.0

Coefficient of Utilization

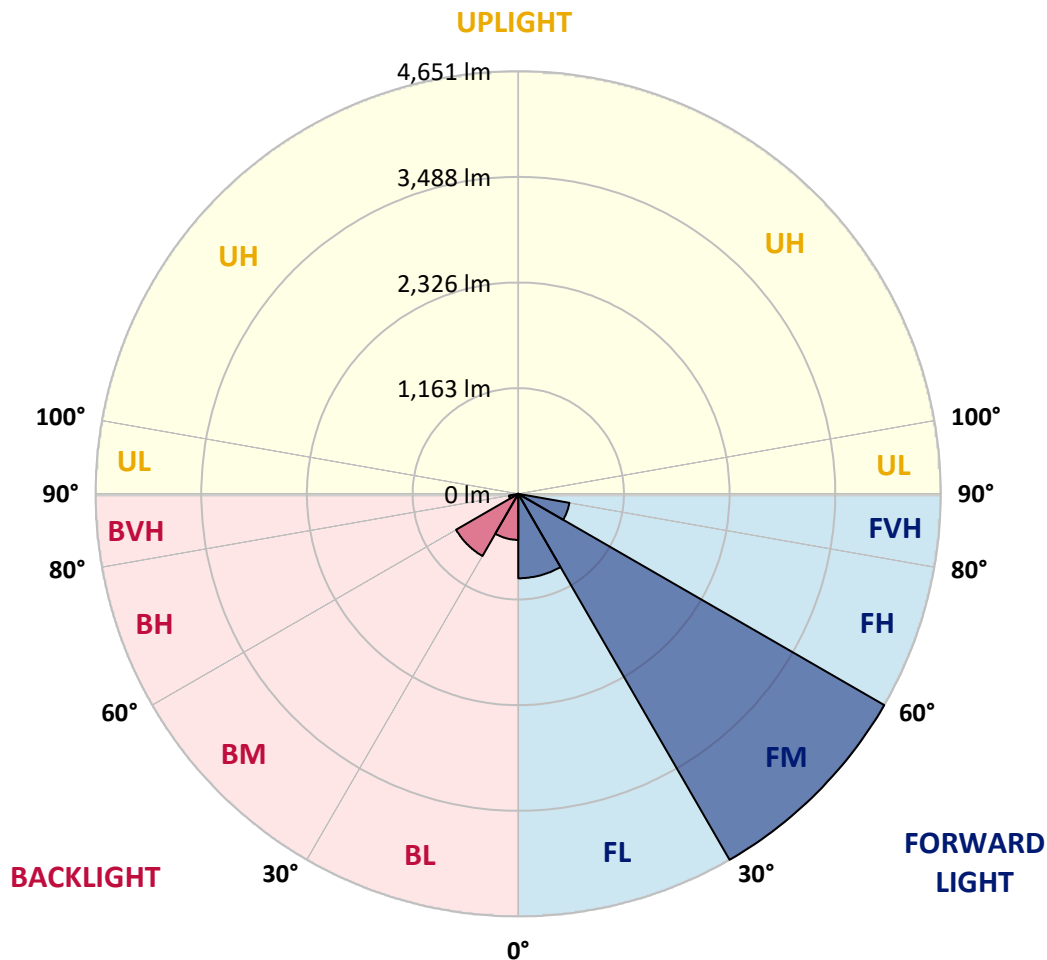


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	929.5	12.3			
FM (30°-60°)	4651.2	61.5			
FH (60°-80°)	571.1	7.6			G0/660
FVH (80°-90°)	4.9	0.1			G0/10
BL (0°-30°)	506.7	6.7	B2/1000		
BM (30°-60°)	790.0	10.4	B1/1000		
BH (60°-80°)	102.5	1.4	B0/110		G0/110
BVH (80°-90°)	5.2	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-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	1943.9	1943.9	1943.9	1943.9	1943.9	1943.9	1943.9	1943.9	1943.9	1943.9	1943.9
2.5°	1827.7	1845.3	1848.0	1869.6	1868.2	1904.7	1915.5	1916.9	1941.2	1929.1	1960.2
5°	1776.3	1766.8	1762.8	1800.6	1811.5	1843.9	1870.9	1887.2	1937.2	1954.8	1987.2
7.5°	1730.3	1730.3	1733.1	1766.8	1762.8	1804.7	1833.1	1883.1	1956.1	1971.0	2010.2
10°	1685.7	1669.5	1689.8	1724.9	1754.7	1773.6	1833.1	1880.4	1965.6	2008.8	2062.9
12.5°	1662.8	1670.9	1673.6	1699.3	1731.7	1788.5	1820.9	1899.3	2033.2	2058.8	2117.0
15°	1807.4	1791.2	1752.0	1729.0	1756.0	1783.1	1864.2	1943.9	2068.3	2104.8	2169.7
17.5°	1975.0	1961.5	1929.1	1866.9	1806.1	1856.1	1919.6	1992.6	2106.2	2160.2	2256.2
20°	2194.0	2172.4	2140.0	2018.3	1965.6	1911.5	1979.1	2065.6	2168.3	2217.0	2315.7
22.5°	2454.9	2454.9	2381.9	2234.6	2125.1	2073.7	2102.1	2152.1	2237.3	2303.5	2400.9
25°	2726.6	2718.5	2652.3	2499.5	2314.3	2253.5	2286.0	2321.1	2344.1	2380.6	2445.5
27.5°	3037.6	2990.3	2906.4	2737.5	2573.9	2456.3	2491.4	2460.3	2431.9	2450.9	2544.2
30°	3248.5	3278.2	3171.4	3009.2	2855.1	2723.9	2730.7	2703.7	2573.9	2600.9	2656.4
32.5°	3467.5	3486.4	3426.9	3337.7	3183.6	3030.8	2975.4	2952.4	2855.1	2867.2	2813.2
35°	3650.0	3686.5	3633.7	3594.5	3549.9	3426.9	3274.1	3348.5	3191.7	3161.9	3021.3
37.5°	3817.6	3806.8	3868.9	3828.4	3818.9	3732.4	3564.8	3579.7	3474.2	3467.5	3305.2
40°	3967.6	3970.3	4055.5	4074.4	4036.6	3882.5	3639.1	3756.7	3841.9	3850.0	3641.8
42.5°	4092.0	4128.5	4201.5	4354.3	4297.5	4040.6	3716.2	3844.6	4160.9	4211.0	3960.9
45°	4200.1	4274.5	4365.1	4501.6	4469.2	4265.0	3908.2	4025.8	4501.6	4632.7	4261.0
47.5°	4206.9	4304.2	4402.9	4605.7	4646.3	4385.4	4106.9	4312.4	4772.0	4913.9	4480.0
50°	4179.9	4231.2	4428.6	4649.0	4740.9	4581.4	4385.4	4553.0	5034.2	5123.5	4590.8
52.5°	3859.5	3898.7	4294.8	4689.5	4911.2	4803.1	4754.4	4888.2	5301.9	5368.1	4694.9
55°	3217.4	3210.6	3755.4	4485.4	4989.6	5131.6	5101.8	5149.1	5611.5	5670.9	4720.6
57.5°	2200.8	2323.8	2794.2	3735.1	4509.7	5054.5	5085.6	5007.2	5250.5	5273.5	4115.0
60°	1186.9	1238.3	1616.8	2492.8	3433.7	4119.0	4200.1	4058.2	4039.3	3974.4	2937.5
62.5°	471.8	497.5	712.4	1234.2	1870.9	2503.6	2678.0	2619.9	2495.5	2325.2	1520.8
65°	224.4	240.6	354.2	577.2	830.0	1043.6	1218.0	1272.1	938.2	844.9	501.5
67.5°	152.8	164.9	258.2	329.8	296.1	309.6	402.8	374.5	220.3	187.9	139.2
70°	116.3	124.4	206.8	224.4	132.5	93.3	104.1	97.3	90.6	91.9	90.6
72.5°	82.5	89.2	151.4	132.5	58.1	43.3	55.4	66.2	66.2	66.2	64.9
75°	50.0	56.8	87.9	51.4	23.0	23.0	35.1	44.6	47.3	48.7	46.0
77.5°	25.7	32.4	29.7	14.9	14.9	17.6	25.7	31.1	33.8	33.8	32.4
80°	5.4	5.4	5.4	8.1	14.9	18.9	25.7	28.4	32.4	32.4	29.7
82.5°	0.0	1.4	4.1	8.1	13.5	17.6	24.3	28.4	32.4	33.8	31.1
85°	0.0	1.4	2.7	5.4	9.5	10.8	9.5	8.1	8.1	8.1	8.1
87.5°	0.0	0.0	1.4	1.4	1.4	2.7	2.7	2.7	2.7	2.7	2.7
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°	1943.9	1943.9	1943.9	1943.9	1943.9	1943.9	1943.9	1943.9	1943.9	1943.9	1943.9
2.5°	1962.9	1966.9	1960.2	1958.8	1953.4	1969.6	1930.4	1921.0	1945.3	1922.3	1927.7
5°	1988.5	1998.0	1985.8	1965.6	1935.8	1889.9	1850.7	1799.3	1775.0	1757.4	1754.7
7.5°	2007.5	2014.2	2002.1	1937.2	1848.0	1731.7	1645.2	1581.6	1531.6	1516.8	1492.4
10°	2084.5	2085.9	2025.0	1881.8	1707.4	1554.6	1422.1	1324.8	1274.8	1243.7	1230.2
12.5°	2135.9	2133.2	2010.2	1772.3	1539.7	1337.0	1185.6	1067.9	1022.0	1007.1	997.7
15°	2200.8	2185.9	1975.0	1660.1	1323.4	1104.4	967.9	886.8	882.7	873.3	882.7
17.5°	2252.2	2210.2	1923.7	1455.9	1116.6	909.8	820.6	826.0	836.8	846.2	847.6
20°	2336.0	2249.5	1806.1	1277.5	924.7	780.0	778.7	803.0	830.0	840.8	851.7
22.5°	2399.5	2265.7	1680.3	1086.9	767.8	727.3	750.3	786.8	807.0	817.9	834.1
25°	2422.5	2221.1	1512.7	896.3	692.1	703.0	738.1	762.4	788.1	800.3	793.5
27.5°	2445.5	2198.1	1312.6	738.1	651.6	686.7	716.5	740.8	748.9	765.1	776.0
30°	2500.9	2118.3	1132.8	638.1	631.3	675.9	697.5	705.7	727.3	736.7	736.7
32.5°	2545.5	2087.2	942.2	590.8	628.6	681.3	684.0	684.0	686.7	680.0	677.3
35°	2637.4	1980.4	771.9	562.4	627.3	682.7	689.4	666.5	604.3	579.9	573.2
37.5°	2751.0	1911.5	646.2	555.6	636.7	698.9	709.7	623.2	542.1	502.9	496.1
40°	2888.9	1862.8	563.7	552.9	658.3	736.7	704.3	589.4	484.0	427.2	424.5
42.5°	3049.7	1818.2	508.3	551.5	685.4	776.0	698.9	561.0	424.5	386.6	392.0
45°	3178.2	1793.9	470.4	542.1	694.8	798.9	703.0	511.0	400.1	375.8	378.5
47.5°	3278.2	1742.5	439.3	525.9	693.5	807.0	666.5	490.7	388.0	394.7	401.5
50°	3280.9	1673.6	400.1	490.7	673.2	792.2	624.5	471.8	385.3	413.7	427.2
52.5°	3244.4	1576.2	358.2	440.7	625.9	740.8	586.7	463.7	373.1	370.4	386.6
55°	3114.6	1393.7	287.9	356.9	528.6	611.0	552.9	448.8	336.6	305.5	308.2
57.5°	2517.1	999.0	212.2	255.5	374.5	447.5	498.8	442.0	302.8	259.6	260.9
60°	1558.7	566.4	155.5	174.4	231.2	271.7	404.2	411.0	270.4	219.0	216.3
62.5°	800.3	279.8	120.3	123.0	141.9	159.5	277.1	344.7	244.7	208.2	208.2
65°	267.7	137.9	105.4	94.6	94.6	98.7	167.6	239.3	206.8	174.4	174.4
67.5°	114.9	102.7	91.9	82.5	75.7	71.6	94.6	139.2	154.1	132.5	127.1
70°	89.2	86.5	79.8	68.9	59.5	54.1	55.4	71.6	87.9	85.2	82.5
72.5°	66.2	66.2	63.5	54.1	46.0	39.2	36.5	37.9	41.9	43.3	44.6
75°	46.0	47.3	47.3	41.9	33.8	28.4	24.3	20.3	16.2	13.5	12.2
77.5°	31.1	32.4	35.1	31.1	25.7	18.9	14.9	10.8	6.8	2.7	2.7
80°	27.0	31.1	33.8	31.1	27.0	20.3	14.9	8.1	4.1	0.0	0.0
82.5°	28.4	31.1	35.1	29.7	25.7	18.9	14.9	9.5	4.1	1.4	0.0
85°	6.8	6.8	8.1	9.5	12.2	13.5	10.8	6.8	4.1	1.4	0.0
87.5°	2.7	2.7	2.7	2.7	2.7	1.4	1.4	1.4	1.4	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)