

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: P529958

Luminaire Tested: **GALN-SA5A-827-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529958
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-827-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14794 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

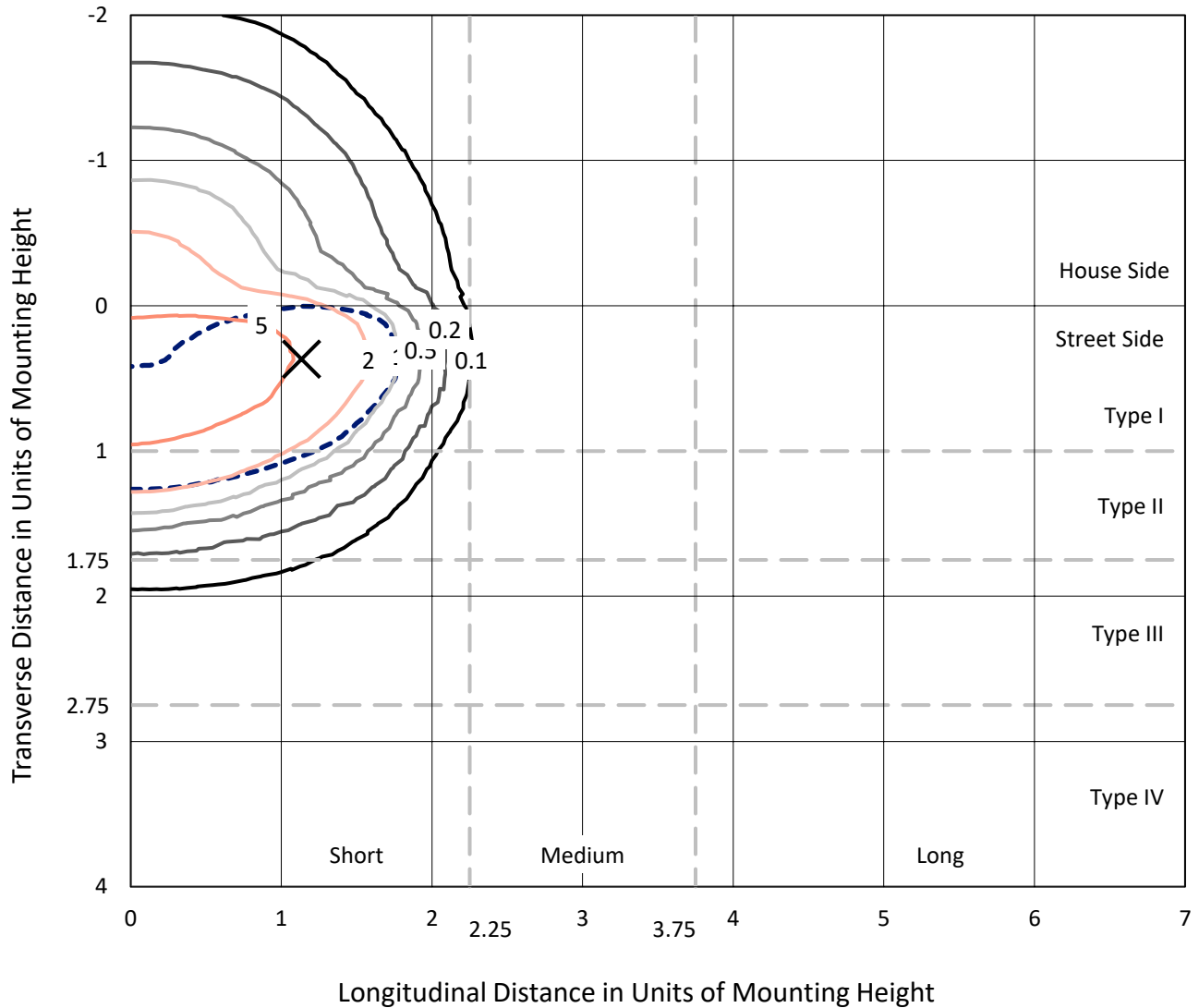
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

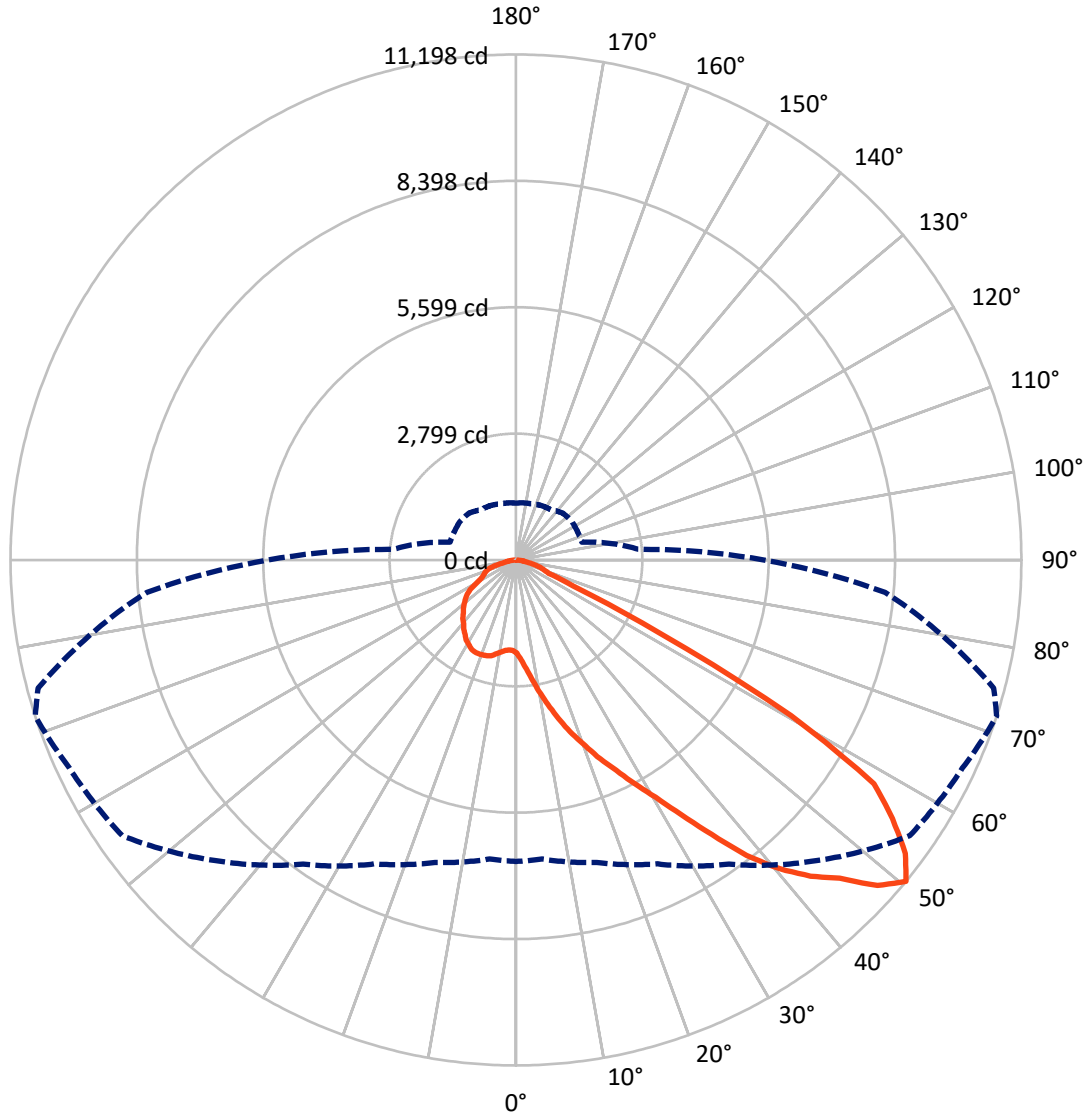
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3389.4	0.0	3389.4
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	11404.6	0.0	11404.6
	% Fixture	77.1	0.0	77.1
Total	Lumens	14794.0	0.0	14794.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.2	1.6
10°-20°	905.6	6.1
20°-30°	1755.9	11.9
30°-40°	2908.9	19.7
40°-50°	4070.1	27.5
50°-60°	3433.7	23.2
60°-70°	1046.6	7.1
70°-80°	367.2	2.5
80°-90°	63.8	0.4
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°	14794.0	100.0
0°-180°	14794.0	100.0

Coefficient of Utilization

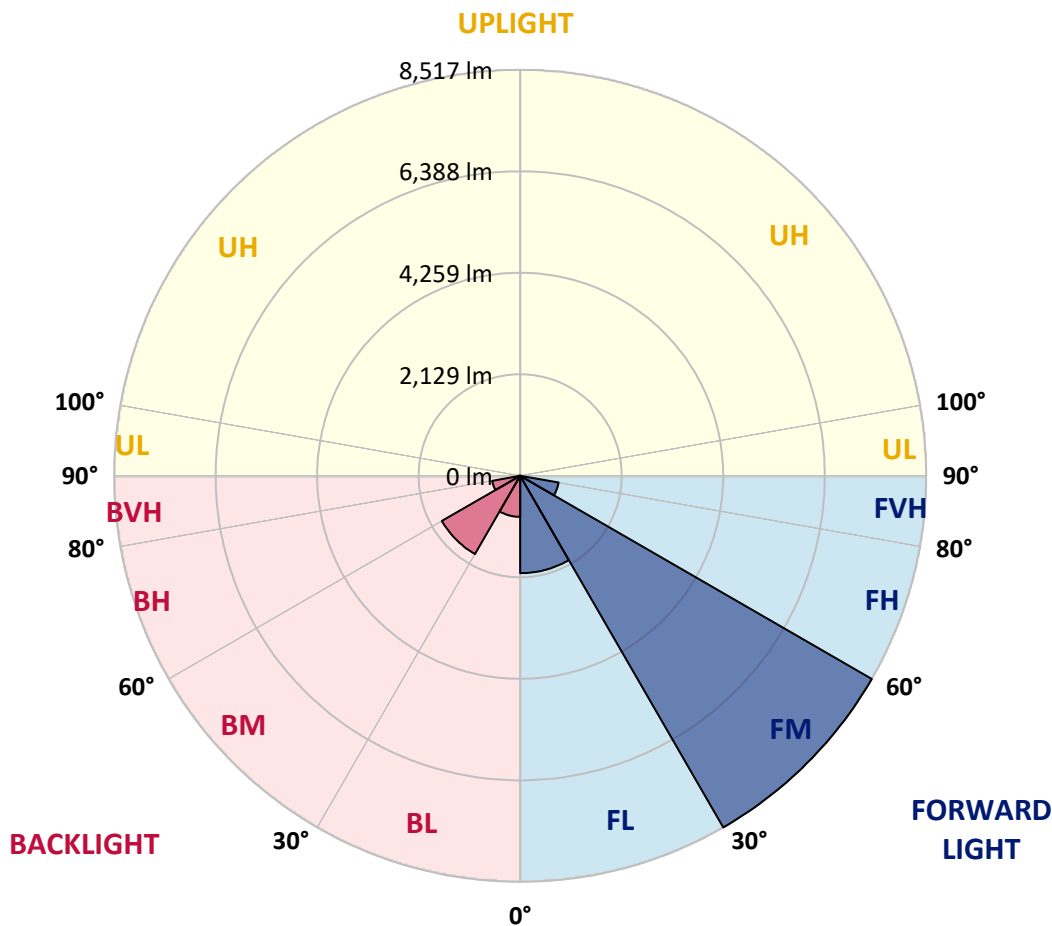


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2042.1	13.8			
FM (30°-60°)	8517.3	57.6			
FH (60°-80°)	816.6	5.5			G1/1800
FVH (80°-90°)	28.6	0.2			G1/100
BL (0°-30°)	861.6	5.8	B2/1000		
BM (30°-60°)	1895.4	12.8	B2/2500		
BH (60°-80°)	597.1	4.0	B2/1000		G2/1000
BVH (80°-90°)	35.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	2059.5	2059.5	2059.5	2059.5	2059.5	2059.5	2059.5	2059.5	2059.5	2059.5	2059.5
2.5°	2648.9	2632.4	2583.0	2566.5	2508.0	2401.8	2365.2	2257.2	2211.4	2169.3	2119.9
5°	3350.0	3273.2	3267.7	3174.3	3038.8	2960.1	2725.8	2568.4	2423.7	2350.5	2215.1
7.5°	3796.7	3798.5	3798.5	3721.7	3613.6	3414.1	3203.6	2919.8	2702.0	2594.0	2363.3
10°	4221.4	4184.8	4164.7	4157.3	4084.1	3890.1	3664.9	3313.4	3015.0	2888.7	2475.0
12.5°	4521.6	4490.5	4536.3	4512.5	4459.4	4333.1	4120.7	3719.8	3346.4	3176.1	2654.4
15°	4664.4	4686.4	4723.0	4788.9	4765.1	4717.5	4483.2	4137.2	3703.4	3511.1	2813.7
17.5°	4884.1	4823.7	4867.6	4950.0	5015.9	4993.9	4860.3	4439.3	4056.7	3820.5	3027.9
20°	5037.9	5003.1	5025.1	5120.3	5169.7	5294.2	5224.6	4834.7	4395.3	4146.4	3280.5
22.5°	5477.2	5426.0	5354.6	5369.2	5387.5	5475.4	5491.9	5268.5	4788.9	4525.3	3520.3
25°	6019.1	5971.5	5887.3	5801.2	5748.2	5731.7	5788.4	5609.0	5166.0	4893.3	3778.4
27.5°	6615.9	6535.3	6482.2	6304.7	6161.9	6139.9	6112.5	6015.4	5612.7	5318.0	4069.5
30°	7196.2	7132.1	7060.7	6777.0	6628.7	6604.9	6469.4	6496.9	6097.8	5770.1	4399.0
32.5°	7635.5	7641.0	7478.1	7263.9	7124.8	6998.5	6949.0	7027.8	6720.2	6456.6	4766.9
35°	7990.7	8007.1	7851.5	7657.5	7507.4	7595.3	7573.3	7609.9	7463.5	7141.3	5195.3
37.5°	8336.7	8254.3	8087.7	7994.3	7915.6	8060.2	8247.0	8278.1	8305.5	7926.6	5693.2
40°	8393.4	8400.7	8303.7	8369.6	8270.8	8488.6	8922.5	8882.2	8993.9	8662.5	6233.3
42.5°	8312.9	8329.3	8367.8	8461.1	8699.1	8960.9	9605.3	9440.5	9576.0	9281.3	6758.7
45°	8181.1	8113.3	8160.9	8516.1	8927.9	9510.1	10229.5	10101.4	10057.4	9810.3	7384.7
47.5°	7551.3	7620.9	7769.2	8206.7	8825.4	9605.3	10672.5	10643.2	10775.0	10601.1	7954.1
50°	6678.1	6650.7	6936.2	7428.7	8226.8	9418.6	10648.7	10914.2	11197.9	10956.3	8208.5
52.5°	5001.3	5147.7	5393.0	6004.4	7143.1	8400.7	10128.8	10571.8	10802.5	10751.2	8003.5
55°	3161.5	3205.4	3353.7	4080.5	5105.6	6742.2	8682.6	9709.6	10121.5	10313.7	7814.9
57.5°	1535.9	1453.5	1634.7	2218.7	2949.1	4534.5	6696.4	8457.5	9352.7	9700.5	7404.9
60°	801.8	832.9	904.3	1113.0	1524.9	2354.2	4173.8	5636.5	7004.0	7538.5	5612.7
62.5°	664.5	675.5	723.1	827.4	1014.2	1354.7	2130.8	2747.8	3571.5	4053.0	3192.6
65°	563.8	569.3	620.6	690.1	809.1	953.8	1096.5	1147.8	1389.4	1426.1	1135.0
67.5°	470.5	476.0	530.9	596.8	673.7	712.1	748.7	745.1	772.5	761.5	759.7
70°	362.5	368.0	424.7	494.3	532.7	510.7	624.2	649.9	660.9	670.0	684.7
72.5°	261.8	272.8	316.7	366.1	346.0	397.2	514.4	552.8	567.5	573.0	591.3
75°	190.4	194.0	205.0	190.4	219.7	276.4	362.5	410.1	428.4	433.9	461.3
77.5°	84.2	86.0	87.9	109.8	141.0	172.1	216.0	254.5	280.1	287.4	294.7
80°	43.9	45.8	56.7	75.1	100.7	126.3	157.4	179.4	195.9	197.7	205.0
82.5°	27.5	29.3	40.3	53.1	71.4	93.4	115.3	133.6	146.4	148.3	150.1
85°	12.8	16.5	23.8	33.0	47.6	60.4	62.2	53.1	56.7	58.6	54.9
87.5°	3.7	5.5	7.3	5.5	7.3	7.3	9.2	11.0	11.0	11.0	12.8
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°	2059.5	2059.5	2059.5	2059.5	2059.5	2059.5	2059.5	2059.5	2059.5	2059.5	2059.5
2.5°	2092.4	2075.9	2011.9	1988.1	1925.8	1936.8	1903.8	1902.0	1894.7	1892.9	1891.0
5°	2143.7	2092.4	2015.5	1956.9	1922.2	1918.5	1894.7	1894.7	1902.0	1907.5	1894.7
7.5°	2227.9	2169.3	2039.3	1984.4	1953.3	1947.8	1931.3	1918.5	1935.0	1929.5	1914.8
10°	2324.9	2222.4	2085.1	2037.5	1986.2	1973.4	1973.4	1978.9	1951.4	1960.6	1946.0
12.5°	2432.9	2295.6	2143.7	2088.7	2028.3	2021.0	2017.3	1977.1	1991.7	1984.4	1947.8
15°	2570.2	2379.8	2218.7	2125.4	2074.1	2041.1	1993.5	1986.2	1977.1	1958.8	1942.3
17.5°	2718.5	2471.3	2253.5	2136.3	2059.5	2035.7	1999.0	1960.6	1933.1	1936.8	1924.0
20°	2844.8	2555.5	2266.3	2147.3	2048.5	2002.7	1946.0	1922.2	1892.9	1891.0	1889.2
22.5°	2994.9	2669.0	2284.6	2118.0	2015.5	1967.9	1929.5	1887.4	1867.2	1841.6	1854.4
25°	3174.3	2713.0	2288.3	2101.6	1991.7	1907.5	1887.4	1841.6	1834.3	1797.7	1805.0
27.5°	3304.3	2736.8	2259.0	2050.3	1936.8	1872.7	1836.1	1803.2	1790.3	1762.9	1755.6
30°	3478.2	2773.4	2196.7	1986.2	1881.9	1810.5	1788.5	1781.2	1744.6	1715.3	1711.6
32.5°	3675.9	2797.2	2156.5	1920.3	1825.1	1770.2	1781.2	1746.4	1700.6	1675.0	1667.7
35°	3833.3	2806.3	2055.8	1845.3	1786.7	1751.9	1739.1	1731.8	1665.9	1642.1	1623.8
37.5°	4073.1	2786.2	1971.6	1792.2	1744.6	1731.8	1720.8	1671.4	1596.3	1561.5	1535.9
40°	4353.2	2780.7	1863.6	1717.1	1704.3	1719.0	1686.0	1609.1	1504.8	1466.3	1448.0
42.5°	4622.3	2819.2	1795.8	1676.9	1660.4	1665.9	1620.1	1504.8	1453.5	1431.5	1402.3
45°	5072.7	2899.7	1684.2	1614.6	1607.3	1603.6	1548.7	1427.9	1398.6	1371.1	1365.6
47.5°	5479.1	2846.6	1612.8	1550.5	1557.9	1537.7	1420.6	1382.1	1349.2	1321.7	1312.6
50°	5502.9	2720.3	1512.1	1501.1	1502.9	1468.2	1356.5	1330.9	1288.8	1270.5	1257.6
52.5°	5378.4	2513.4	1418.7	1422.4	1427.9	1371.1	1277.8	1259.5	1224.7	1199.1	1191.7
55°	5028.7	2191.3	1327.2	1341.8	1356.5	1248.5	1219.2	1173.4	1146.0	1109.4	1111.2
57.5°	4430.1	1764.7	1199.1	1222.9	1254.0	1135.0	1113.0	1056.3	1016.0	986.7	983.0
60°	2969.3	1255.8	1006.8	1016.0	1085.6	1038.0	1036.1	979.4	924.5	898.8	884.2
62.5°	1751.9	959.2	869.5	860.4	858.6	886.0	931.8	911.7	840.3	790.8	805.5
65°	917.1	829.3	809.1	778.0	759.7	752.4	787.2	796.3	748.7	695.6	692.0
67.5°	770.7	770.7	754.2	743.2	717.6	686.5	664.5	635.2	627.9	613.3	595.0
70°	701.1	719.4	713.9	688.3	666.3	631.6	574.8	527.2	481.5	465.0	476.0
72.5°	611.4	629.7	629.7	616.9	587.6	534.5	479.6	424.7	386.3	357.0	353.3
75°	470.5	479.6	501.6	486.9	448.5	415.6	358.8	302.1	265.4	238.0	232.5
77.5°	300.2	314.9	314.9	313.0	285.6	254.5	217.8	177.6	150.1	130.0	124.5
80°	199.5	208.7	216.0	208.7	190.4	166.6	139.1	111.7	91.5	75.1	71.4
82.5°	146.4	157.4	162.9	155.6	137.3	119.0	98.9	78.7	58.6	45.8	42.1
85°	56.7	58.6	65.9	78.7	76.9	75.1	60.4	43.9	33.0	23.8	22.0
87.5°	14.6	12.8	14.6	14.6	12.8	11.0	11.0	11.0	11.0	5.5	7.3
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)