

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: P529100

Luminaire Tested: **GALN-SA4B-727-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529100
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-SA4B-727-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 800mA 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: 16542 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

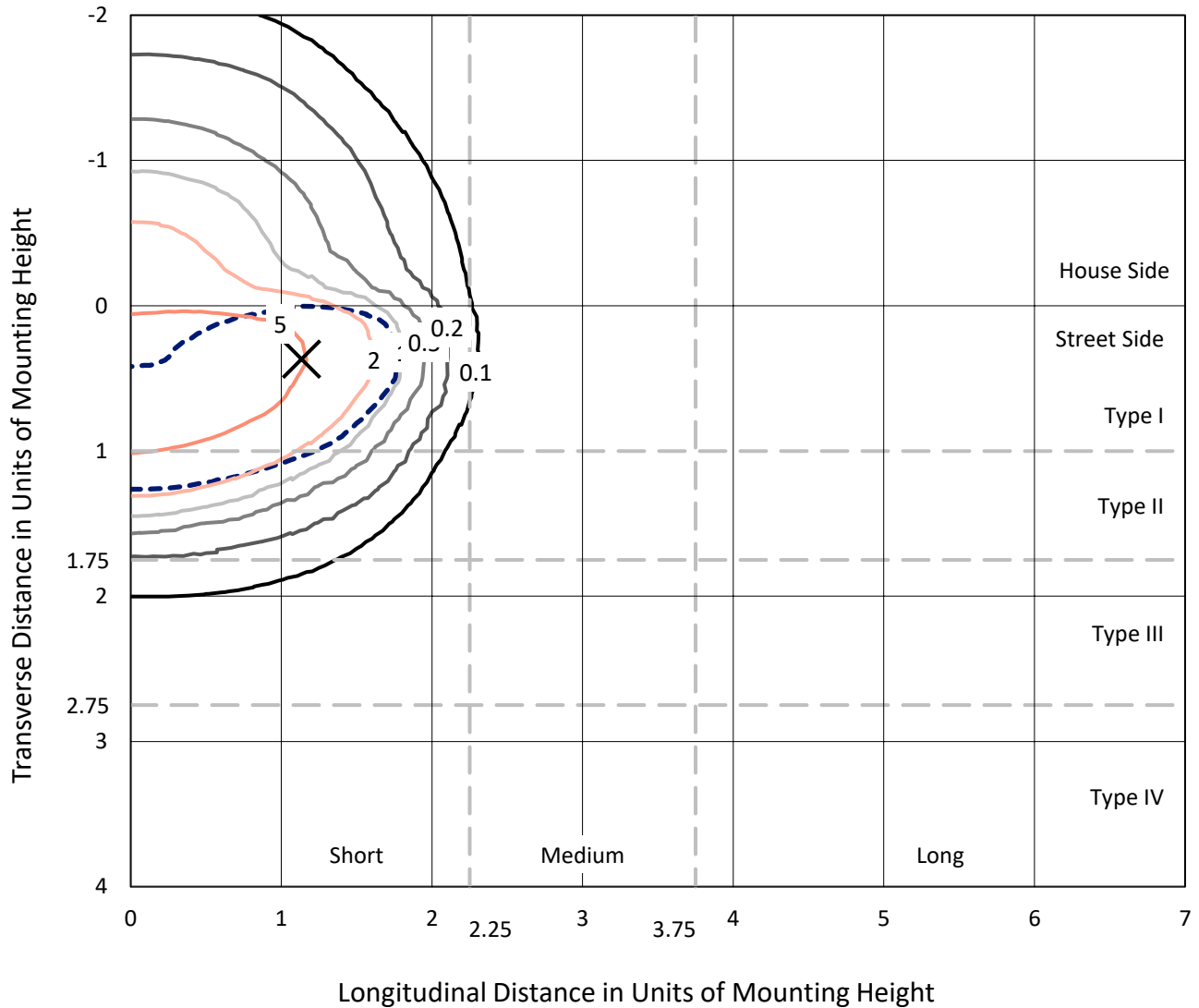
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

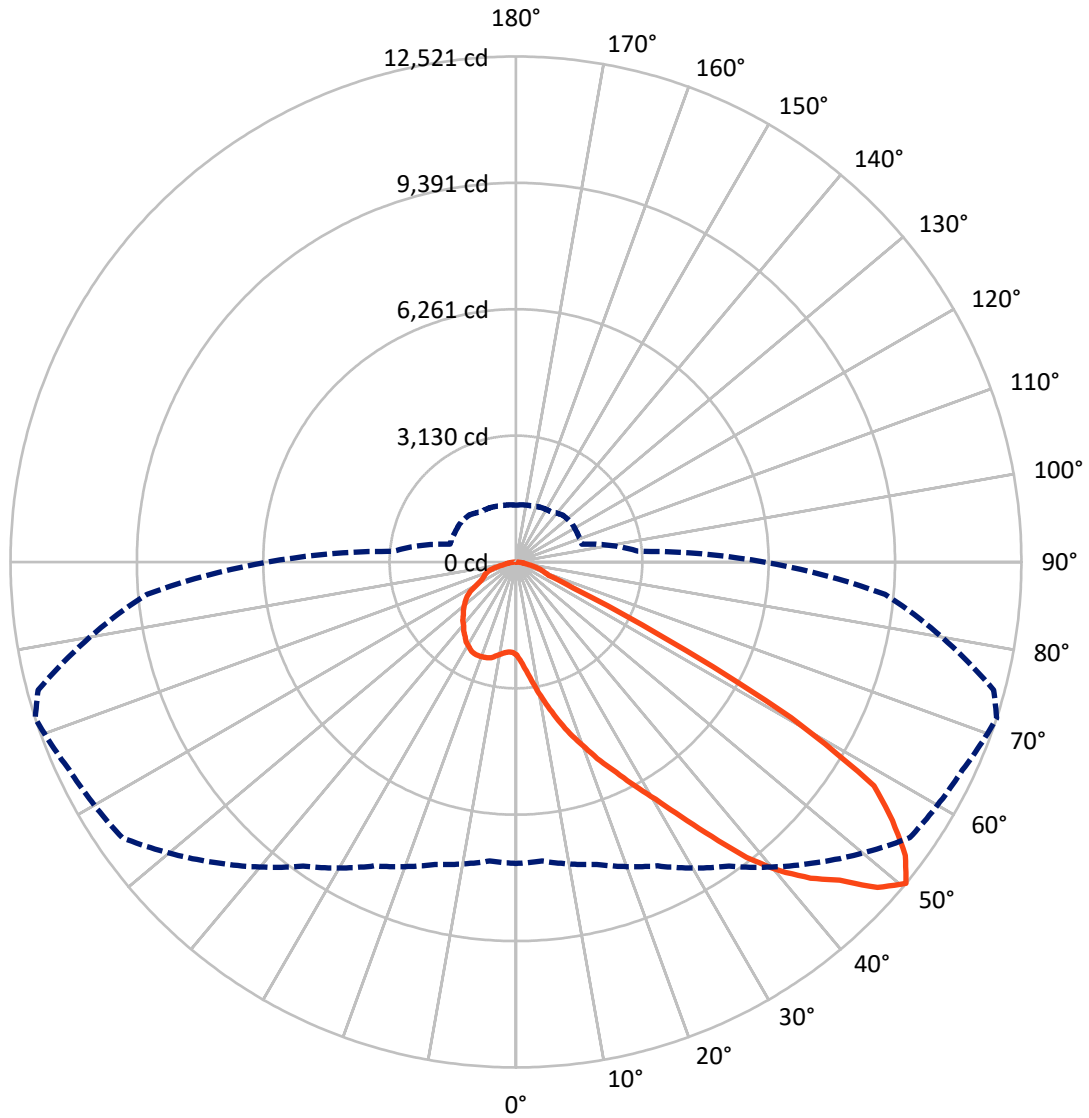
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 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	3789.9	0.0	3789.9
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	12752.1	0.0	12752.1
	% Fixture	77.1	0.0	77.1
Total	Lumens	16542.0	0.0	16542.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.9	1.6
10°-20°	1012.6	6.1
20°-30°	1963.3	11.9
30°-40°	3252.6	19.7
40°-50°	4551.1	27.5
50°-60°	3839.4	23.2
60°-70°	1170.2	7.1
70°-80°	410.6	2.5
80°-90°	71.4	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°	16542.0	100.0
0°-180°	16542.0	100.0

Coefficient of Utilization

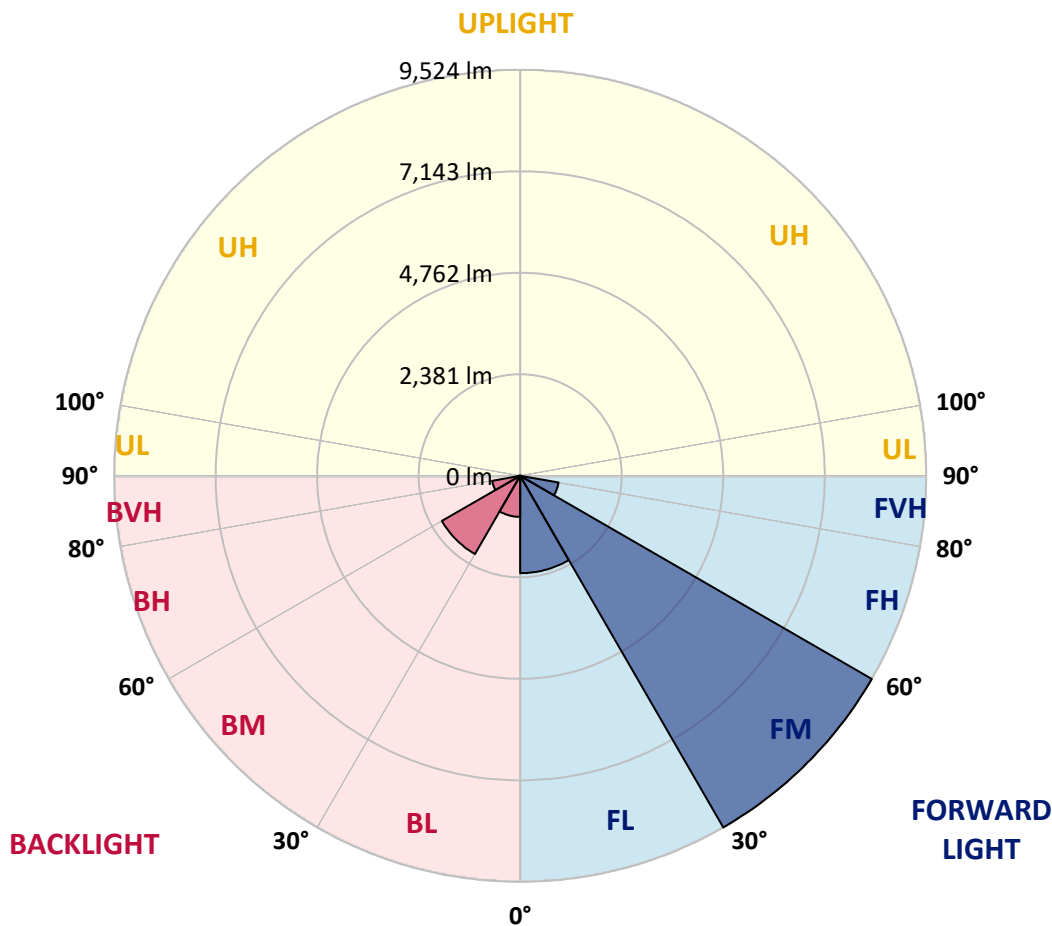


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2283.4	13.8			
FM (30°-60°)	9523.7	57.6			
FH (60°-80°)	913.1	5.5			G1/1800
FVH (80°-90°)	32.0	0.2			G1/100
BL (0°-30°)	963.4	5.8	B2/1000		
BM (30°-60°)	2119.4	12.8	B2/2500		
BH (60°-80°)	667.7	4.0	B2/1000		G2/1000
BVH (80°-90°)	39.4	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°	2302.8	2302.8	2302.8	2302.8	2302.8	2302.8	2302.8	2302.8	2302.8	2302.8	2302.8
2.5°	2961.9	2943.5	2888.2	2869.8	2804.3	2685.6	2644.6	2523.9	2472.7	2425.6	2370.3
5°	3745.9	3659.9	3653.8	3549.4	3397.9	3309.9	3047.9	2871.8	2710.1	2628.2	2476.8
7.5°	4245.3	4247.4	4247.4	4161.4	4040.6	3817.5	3582.1	3264.8	3021.3	2900.5	2642.6
10°	4720.2	4679.3	4656.7	4648.6	4566.7	4349.7	4097.9	3704.9	3371.3	3230.0	2767.4
12.5°	5055.9	5021.1	5072.3	5045.7	4986.3	4845.1	4607.6	4159.3	3741.8	3551.4	2968.0
15°	5215.6	5240.1	5281.1	5354.7	5328.1	5274.9	5012.9	4626.0	4140.9	3926.0	3146.1
17.5°	5461.2	5393.6	5442.8	5534.9	5608.6	5584.0	5434.6	4963.8	4536.0	4271.9	3385.6
20°	5633.1	5594.2	5618.8	5725.2	5780.5	5919.7	5841.9	5405.9	4914.7	4636.3	3668.1
22.5°	6124.4	6067.1	5987.2	6003.6	6024.1	6122.3	6140.8	5891.0	5354.7	5060.0	3936.2
25°	6730.3	6677.1	6582.9	6486.7	6427.3	6408.9	6472.4	6271.8	5776.4	5471.4	4224.8
27.5°	7397.6	7307.5	7248.2	7049.6	6889.9	6865.4	6834.7	6726.2	6275.9	5946.3	4550.3
30°	8046.5	7974.8	7895.0	7577.7	7411.9	7385.3	7233.8	7264.5	6818.3	6451.9	4918.8
32.5°	8537.7	8543.9	8361.7	8122.2	7966.6	7825.4	7770.1	7858.1	7514.3	7219.5	5330.2
35°	8934.8	8953.2	8779.2	8562.3	8394.4	8492.7	8468.1	8509.1	8345.3	7985.0	5809.2
37.5°	9321.7	9229.6	9043.3	8938.9	8850.9	9012.6	9221.4	9256.2	9286.9	8863.2	6365.9
40°	9385.1	9393.3	9284.8	9358.5	9248.0	9491.6	9976.7	9931.7	10056.5	9686.0	6969.8
42.5°	9295.1	9313.5	9356.5	9460.9	9727.0	10019.7	10740.2	10556.0	10707.4	10377.9	7557.2
45°	9147.7	9072.0	9125.2	9522.3	9982.8	10633.8	11438.2	11294.9	11245.8	10969.5	8257.3
47.5°	8443.6	8521.3	8687.1	9176.4	9868.2	10740.2	11933.6	11900.8	12048.2	11853.7	8893.9
50°	7467.2	7436.5	7755.8	8306.4	9198.9	10531.4	11906.9	12203.8	12521.0	12250.8	9178.4
52.5°	5592.2	5755.9	6030.2	6713.9	7987.1	9393.3	11325.6	11821.0	12078.9	12021.6	8949.1
55°	3535.0	3584.2	3750.0	4562.6	5708.9	7538.8	9708.6	10856.9	11317.4	11532.4	8738.3
57.5°	1717.4	1625.3	1827.9	2480.9	3297.6	5070.2	7487.6	9456.8	10457.7	10846.6	8279.8
60°	896.6	931.3	1011.2	1244.5	1705.1	2632.3	4667.0	6302.5	7831.5	8429.2	6275.9
62.5°	743.0	755.3	808.5	925.2	1134.0	1514.7	2382.6	3072.4	3993.5	4531.9	3569.8
65°	630.5	636.6	693.9	771.7	904.7	1066.4	1226.1	1283.4	1553.6	1594.6	1269.1
67.5°	526.1	532.2	593.6	667.3	753.3	796.3	837.2	833.1	863.8	851.5	849.5
70°	405.3	411.4	474.9	552.7	595.7	571.1	698.0	726.7	738.9	749.2	765.5
72.5°	292.7	305.0	354.1	409.4	386.9	444.2	575.2	618.2	634.5	640.7	661.2
75°	212.9	217.0	229.3	212.9	245.6	309.1	405.3	458.5	479.0	485.1	515.8
77.5°	94.2	96.2	98.3	122.8	157.6	192.4	241.5	284.5	313.2	321.4	329.6
80°	49.1	51.2	63.5	83.9	112.6	141.2	176.0	200.6	219.0	221.1	229.3
82.5°	30.7	32.8	45.0	59.4	79.8	104.4	129.0	149.4	163.8	165.8	167.8
85°	14.3	18.4	26.6	36.8	53.2	67.5	69.6	59.4	63.5	65.5	61.4
87.5°	4.1	6.1	8.2	6.1	8.2	8.2	10.2	12.3	12.3	12.3	14.3
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°	2302.8	2302.8	2302.8	2302.8	2302.8	2302.8	2302.8	2302.8	2302.8	2302.8	2302.8
2.5°	2339.6	2321.2	2249.6	2223.0	2153.4	2165.6	2128.8	2126.8	2118.6	2116.5	2114.5
5°	2396.9	2339.6	2253.7	2188.2	2149.3	2145.2	2118.6	2118.6	2126.8	2132.9	2118.6
7.5°	2491.1	2425.6	2280.3	2218.9	2184.1	2177.9	2159.5	2145.2	2163.6	2157.5	2141.1
10°	2599.6	2485.0	2331.4	2278.2	2220.9	2206.6	2206.6	2212.7	2182.0	2192.3	2175.9
12.5°	2720.4	2566.8	2396.9	2335.5	2268.0	2259.8	2255.7	2210.7	2227.1	2218.9	2177.9
15°	2873.9	2661.0	2480.9	2376.5	2319.2	2282.3	2229.1	2220.9	2210.7	2190.2	2171.8
17.5°	3039.7	2763.3	2519.8	2388.8	2302.8	2276.2	2235.2	2192.3	2161.5	2165.6	2151.3
20°	3180.9	2857.5	2534.1	2401.0	2290.5	2239.3	2175.9	2149.3	2116.5	2114.5	2112.4
22.5°	3348.8	2984.4	2554.6	2368.3	2253.7	2200.4	2157.5	2110.4	2087.9	2059.2	2073.5
25°	3549.4	3033.5	2558.7	2349.9	2227.1	2132.9	2110.4	2059.2	2051.0	2010.1	2018.3
27.5°	3694.7	3060.1	2525.9	2292.6	2165.6	2094.0	2053.1	2016.2	2001.9	1971.2	1963.0
30°	3889.2	3101.1	2456.3	2220.9	2104.2	2024.4	1999.8	1991.7	1950.7	1918.0	1913.9
32.5°	4110.2	3127.7	2411.3	2147.2	2040.8	1979.4	1991.7	1952.8	1901.6	1872.9	1864.7
35°	4286.3	3137.9	2298.7	2063.3	1997.8	1958.9	1944.6	1936.4	1862.7	1836.1	1815.6
37.5°	4554.4	3115.4	2204.5	2003.9	1950.7	1936.4	1924.1	1868.8	1784.9	1746.0	1717.4
40°	4867.6	3109.3	2083.8	1920.0	1905.7	1922.1	1885.2	1799.2	1682.6	1639.6	1619.1
42.5°	5168.5	3152.3	2008.0	1875.0	1856.6	1862.7	1811.5	1682.6	1625.3	1600.7	1567.9
45°	5672.0	3242.3	1883.2	1805.4	1797.2	1793.1	1731.7	1596.6	1563.8	1533.1	1527.0
47.5°	6126.4	3183.0	1803.3	1733.7	1741.9	1719.4	1588.4	1545.4	1508.6	1477.9	1467.6
50°	6153.0	3041.7	1690.8	1678.5	1680.5	1641.6	1516.8	1488.1	1441.0	1420.6	1406.2
52.5°	6013.9	2810.4	1586.4	1590.5	1596.6	1533.1	1428.8	1408.3	1369.4	1340.7	1332.5
55°	5622.9	2450.2	1484.0	1500.4	1516.8	1396.0	1363.3	1312.1	1281.4	1240.4	1242.5
57.5°	4953.6	1973.2	1340.7	1367.3	1402.1	1269.1	1244.5	1181.1	1136.0	1103.3	1099.2
60°	3320.1	1404.2	1125.8	1136.0	1213.8	1160.6	1158.6	1095.1	1033.7	1005.0	988.7
62.5°	1958.9	1072.6	972.3	962.1	960.0	990.7	1041.9	1019.4	939.5	884.3	900.6
65°	1025.5	927.3	904.7	869.9	849.5	841.3	880.2	890.4	837.2	777.8	773.7
67.5°	861.8	861.8	843.3	831.1	802.4	767.6	743.0	710.3	702.1	685.7	665.2
70°	784.0	804.4	798.3	769.6	745.1	706.2	642.7	589.5	538.3	519.9	532.2
72.5°	683.7	704.1	704.1	689.8	657.1	597.7	536.3	474.9	431.9	399.1	395.1
75°	526.1	536.3	560.9	544.5	501.5	464.7	401.2	337.7	296.8	266.1	260.0
77.5°	335.7	352.1	352.1	350.0	319.3	284.5	243.6	198.6	167.8	145.3	139.2
80°	223.1	233.3	241.5	233.3	212.9	186.3	155.6	124.9	102.3	83.9	79.8
82.5°	163.8	176.0	182.2	174.0	153.5	133.0	110.5	88.0	65.5	51.2	47.1
85°	63.5	65.5	73.7	88.0	86.0	83.9	67.5	49.1	36.8	26.6	24.6
87.5°	16.4	14.3	16.4	16.4	14.3	12.3	12.3	12.3	12.3	6.1	8.2
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)