

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: P529078

Luminaire Tested: **GALN-SA4B-722-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529078
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-722-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2200K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14445 lumens
Efficiency: N/A
Efficacy: 88.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

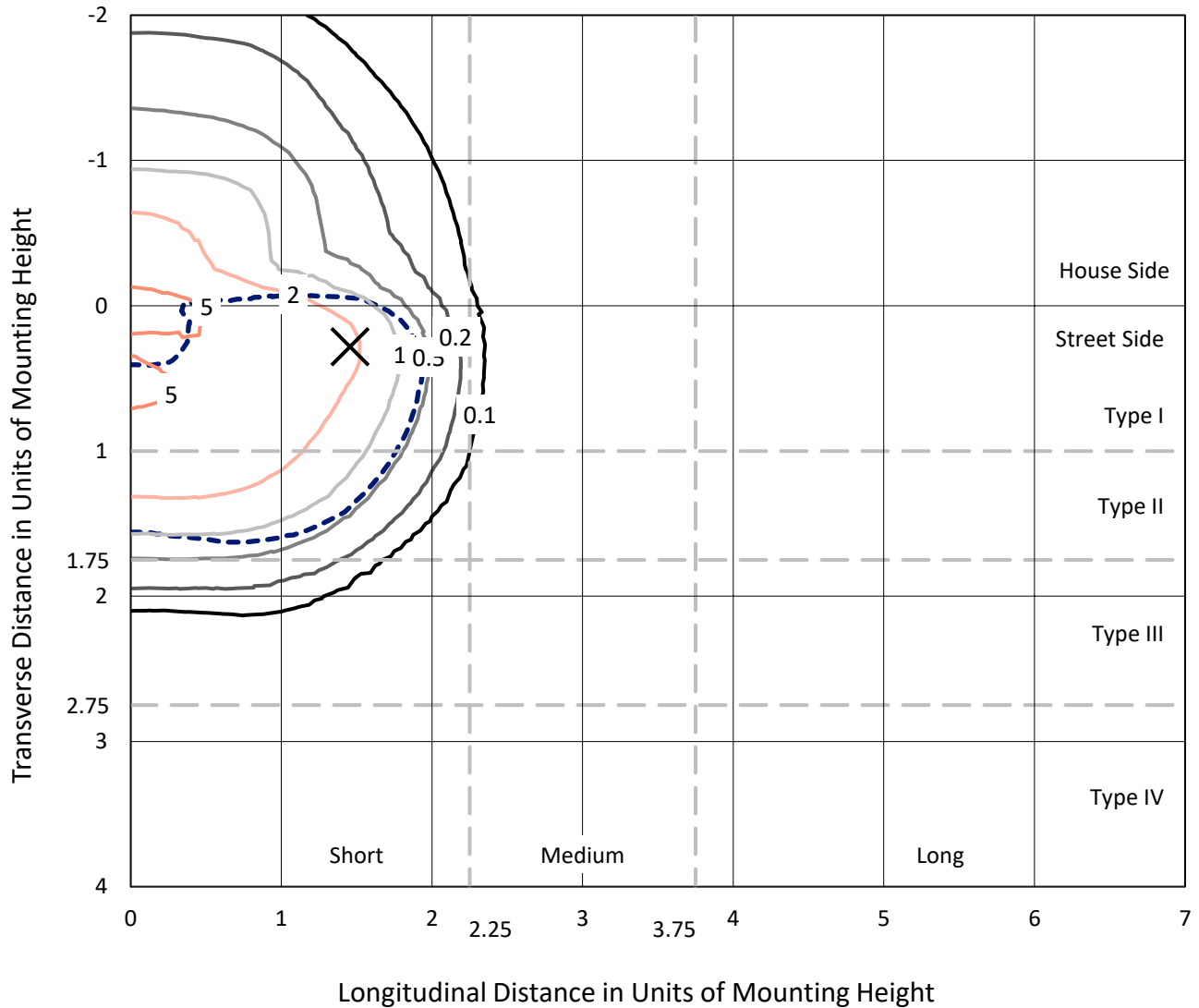
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

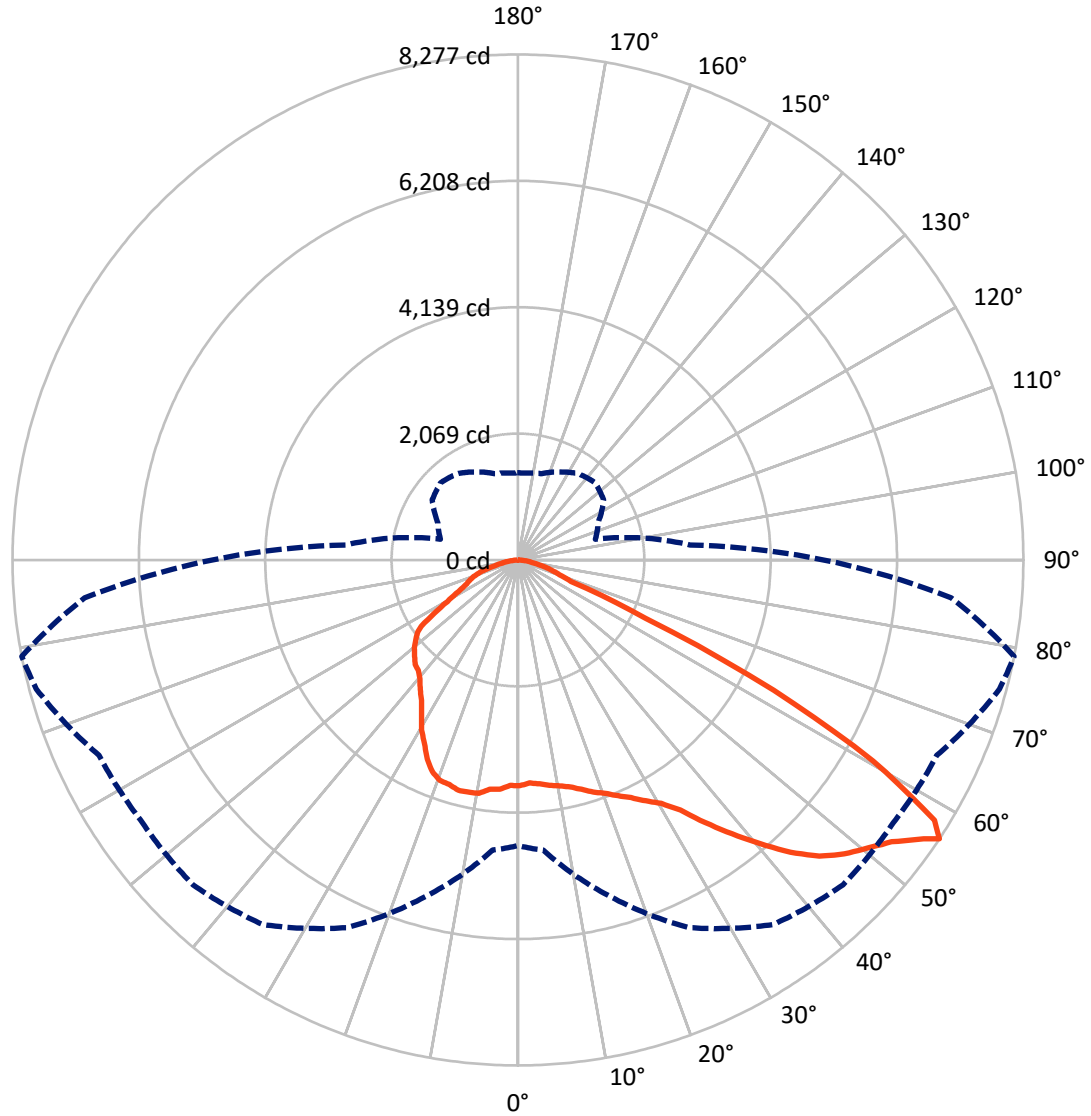
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4265.9	0.0	4265.9
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	10179.1	0.0	10179.1
	% Fixture	70.5	0.0	70.5
Total	Lumens	14445.0	0.0	14445.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.0	2.3
10°-20°	919.6	6.4
20°-30°	1573.3	10.9
30°-40°	2411.3	16.7
40°-50°	3258.8	22.6
50°-60°	3742.8	25.9
60°-70°	1706.1	11.8
70°-80°	420.6	2.9
80°-90°	76.5	0.5
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°	14445.0	100.0
0°-180°	14445.0	100.0

Coefficient of Utilization



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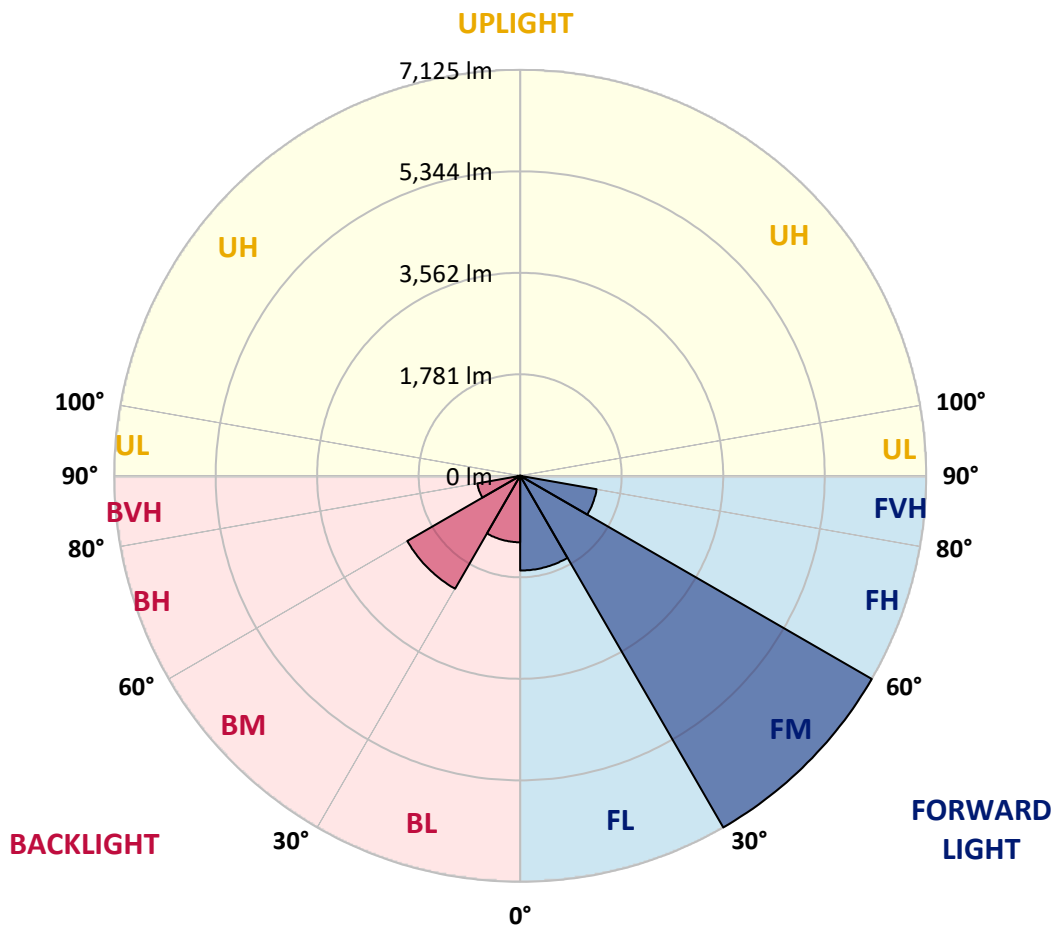
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1662.0	11.5			
FM (30°-60°)	7124.7	49.3			
FH (60°-80°)	1361.8	9.4			G1/1800
FVH (80°-90°)	30.5	0.2			G1/100
BL (0°-30°)	1166.9	8.1	B3/2500		
BM (30°-60°)	2288.2	15.8	B2/2500		
BH (60°-80°)	764.9	5.3	B2/1000		G2/1000
BVH (80°-90°)	45.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	3695.9	3695.9	3695.9	3695.9	3695.9	3695.9	3695.9	3695.9	3695.9	3695.9	3695.9
2.5°	3516.0	3507.0	3528.6	3544.8	3564.5	3589.7	3602.3	3609.5	3672.5	3656.3	3704.9
5°	3440.4	3417.0	3433.2	3445.8	3480.0	3510.6	3544.8	3598.7	3656.3	3681.5	3740.9
7.5°	3373.8	3361.2	3357.6	3366.6	3413.4	3453.0	3512.4	3591.5	3685.1	3726.5	3760.7
10°	3264.1	3246.1	3273.1	3332.4	3345.0	3427.8	3496.2	3609.5	3690.5	3762.5	3863.2
12.5°	3215.5	3197.5	3202.9	3237.1	3325.2	3404.4	3485.4	3613.1	3784.1	3812.9	3947.8
15°	3292.8	3274.9	3280.2	3271.3	3355.8	3397.2	3525.0	3685.1	3848.8	3897.4	4041.4
17.5°	3469.2	3471.0	3447.6	3427.8	3408.0	3496.2	3584.3	3728.3	3874.0	3996.4	4104.4
20°	3805.7	3746.3	3699.5	3587.9	3557.4	3595.1	3706.7	3845.3	3976.6	4077.4	4199.7
22.5°	4064.8	4070.2	4003.6	3820.1	3753.5	3769.7	3865.0	3978.4	4122.4	4194.3	4334.7
25°	4440.8	4403.1	4331.1	4185.3	4036.0	4048.6	4118.8	4221.3	4260.9	4311.3	4464.2
27.5°	4784.5	4795.3	4653.2	4516.4	4331.1	4295.1	4421.0	4439.0	4372.5	4467.8	4520.0
30°	5133.6	5124.6	5031.0	4870.9	4689.2	4696.4	4752.1	4664.0	4572.2	4624.4	4660.4
32.5°	5495.3	5392.7	5389.1	5245.2	5106.6	5040.0	4971.7	5014.8	4872.7	4883.5	4849.3
35°	5785.0	5799.4	5716.6	5614.0	5545.7	5428.7	5241.6	5318.9	5291.9	5279.3	5131.8
37.5°	5995.5	5939.7	5981.1	5946.9	5882.1	5736.4	5542.1	5615.8	5628.4	5689.6	5518.7
40°	6168.2	6144.8	6254.6	6272.6	6227.6	5912.7	5563.6	5783.2	5972.1	6105.3	5901.9
42.5°	6251.0	6301.4	6416.5	6555.1	6454.3	6117.9	5675.2	5910.9	6332.0	6542.5	6265.4
45°	6362.6	6297.8	6468.7	6722.4	6724.2	6290.6	5783.2	6083.7	6612.7	6918.6	6513.7
47.5°	6249.2	6281.6	6457.9	6780.0	6862.8	6472.3	6074.7	6328.4	6922.2	7193.9	6744.0
50°	5995.5	6060.3	6382.4	6717.0	6967.2	6664.9	6409.4	6592.9	7208.3	7415.2	6781.8
52.5°	5731.0	5767.0	6270.8	6765.6	7013.9	6913.2	6857.4	6958.2	7557.3	7665.3	6828.6
55°	5011.2	5182.2	5901.9	6744.0	7242.5	7361.2	7318.0	7465.6	7953.2	8061.2	7084.1
56°	4678.4	4768.3	5680.6	6643.3	7287.4	7525.0	7503.4	7569.9	8163.7	8277.1	7123.7
57.5°	4063.0	4070.2	4843.9	6197.0	7118.3	7573.5	7552.0	7604.1	8122.4	8045.0	6776.4
60°	2542.5	2654.1	3296.4	4766.5	6053.1	7026.5	7148.9	6729.6	6848.4	6684.7	5272.2
62.5°	1317.1	1300.9	1727.4	2787.2	4018.0	5031.0	5144.4	5124.6	4941.1	4701.8	3444.0
65°	656.8	660.4	903.3	1380.1	2058.5	2634.3	2951.0	2985.2	2497.5	2297.8	1633.8
67.5°	476.8	494.8	649.6	843.9	969.9	1085.0	1329.7	1304.5	987.9	939.3	870.9
70°	370.7	386.9	527.2	644.2	584.8	584.8	637.0	658.6	703.6	723.3	746.7
72.5°	269.9	282.5	403.1	444.4	383.3	412.1	476.8	527.2	574.0	581.2	608.2
75°	185.3	196.1	264.5	244.7	230.3	284.3	349.1	395.9	430.0	448.0	464.2
77.5°	120.6	124.2	151.1	127.8	147.5	183.5	226.7	266.3	300.5	314.9	318.5
80°	54.0	59.4	64.8	81.0	102.6	131.4	161.9	194.3	215.9	221.3	232.1
82.5°	30.6	30.6	39.6	57.6	75.6	95.4	117.0	140.4	165.5	170.9	169.1
85°	16.2	16.2	23.4	34.2	46.8	55.8	54.0	55.8	59.4	68.4	66.6
87.5°	5.4	5.4	7.2	7.2	9.0	10.8	9.0	12.6	16.2	16.2	16.2
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°	3695.9	3695.9	3695.9	3695.9	3695.9	3695.9	3695.9	3695.9	3695.9	3695.9	3695.9
2.5°	3690.5	3706.7	3685.1	3731.9	3731.9	3722.9	3677.9	3692.3	3703.1	3703.1	3712.1
5°	3760.7	3755.3	3769.7	3713.9	3679.7	3667.1	3593.3	3557.4	3526.8	3525.0	3498.0
7.5°	3800.3	3785.9	3780.5	3739.1	3587.9	3496.2	3337.8	3246.1	3226.3	3156.1	3183.1
10°	3863.2	3890.2	3863.2	3638.3	3427.8	3217.3	3062.5	2920.4	2864.6	2819.6	2792.6
12.5°	3992.8	3980.2	3823.7	3519.6	3224.5	2974.4	2744.0	2594.7	2538.9	2499.3	2495.7
15°	4102.6	4039.6	3800.3	3332.4	2907.8	2641.5	2452.5	2346.4	2321.2	2324.8	2341.0
17.5°	4140.3	4097.2	3677.9	3138.1	2672.1	2359.0	2270.8	2254.6	2278.0	2305.0	2312.2
20°	4199.7	4131.4	3627.5	2873.6	2380.6	2182.6	2177.2	2234.8	2278.0	2317.6	2323.0
22.5°	4323.9	4151.1	3463.8	2623.5	2180.8	2130.5	2182.6	2231.2	2297.8	2330.2	2301.4
25°	4359.9	4108.0	3233.5	2323.0	2054.9	2098.1	2153.8	2220.4	2267.2	2285.2	2297.8
27.5°	4390.5	4041.4	2922.2	2123.3	2015.3	2096.3	2153.8	2209.6	2234.8	2251.0	2265.4
30°	4476.8	4021.6	2652.3	1990.1	1990.1	2060.3	2134.1	2148.4	2182.6	2202.4	2227.6
32.5°	4520.0	3884.8	2375.2	1905.5	1964.9	2078.3	2083.7	2110.7	2112.5	2128.7	2101.7
35°	4633.4	3787.7	2117.9	1844.4	1975.7	2060.3	2087.3	2071.1	1982.9	1939.7	1948.7
37.5°	4716.1	3739.1	1932.5	1837.2	1977.5	2080.1	2094.5	1972.1	1880.3	1808.4	1826.4
40°	4939.3	3618.5	1792.2	1824.6	1993.7	2101.7	2062.1	1928.9	1763.4	1689.6	1677.0
42.5°	5110.2	3532.2	1704.0	1810.2	2006.3	2132.3	2045.9	1842.6	1673.4	1605.0	1623.0
45°	5308.1	3512.4	1657.2	1813.8	2027.9	2148.4	2026.1	1776.0	1596.0	1569.0	1563.7
47.5°	5378.3	3370.2	1606.8	1783.2	2022.5	2143.0	1959.5	1725.6	1567.3	1570.8	1585.2
50°	5261.4	3224.5	1569.0	1720.2	1986.5	2094.5	1855.1	1659.0	1551.1	1596.0	1621.2
52.5°	5112.0	3075.1	1491.7	1635.6	1912.7	2018.9	1806.6	1655.4	1534.9	1520.5	1525.9
55°	5157.0	2952.8	1383.7	1520.5	1794.0	1878.5	1752.6	1621.2	1495.3	1441.3	1459.3
56°	5011.2	2826.8	1313.5	1448.5	1713.0	1788.6	1725.6	1590.6	1462.9	1426.9	1426.9
57.5°	4599.2	2404.0	1221.8	1333.3	1542.1	1632.0	1673.4	1572.6	1426.9	1363.9	1365.7
60°	3391.8	1709.4	1095.8	1175.0	1277.6	1349.5	1542.1	1522.3	1336.9	1293.7	1277.6
62.5°	2090.9	1248.8	1005.8	1036.4	1088.6	1148.0	1345.9	1378.3	1241.6	1194.8	1184.0
65°	1171.4	955.5	937.5	950.1	975.3	1005.8	1117.4	1189.4	1095.8	1023.8	1020.2
67.5°	856.5	854.7	869.1	879.9	890.7	890.7	917.7	946.5	933.9	876.3	870.9
70°	761.1	766.5	777.3	779.1	782.7	770.1	748.5	739.5	753.9	717.9	710.8
72.5°	628.0	646.0	658.6	660.4	640.6	624.4	595.6	565.0	554.2	547.0	545.2
75°	482.2	494.8	500.2	498.4	491.2	467.8	433.6	403.1	383.3	361.7	372.5
77.5°	325.7	343.7	352.7	352.7	341.9	305.9	289.7	266.3	246.5	223.1	226.7
80°	228.5	241.1	255.5	253.7	235.7	217.7	194.3	172.7	156.5	138.6	136.8
82.5°	170.9	178.1	185.3	181.7	169.1	151.1	135.0	115.2	97.2	84.6	84.6
85°	61.2	66.6	81.0	84.6	91.8	91.8	77.4	64.8	52.2	43.2	43.2
87.5°	18.0	18.0	19.8	19.8	18.0	19.8	16.2	18.0	19.8	12.6	12.6
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)