

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: P528604

Luminaire Tested: **GALN-SA3D-722-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528604
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-722-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2200K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14239 lumens
Efficiency: N/A
Efficacy: 77.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

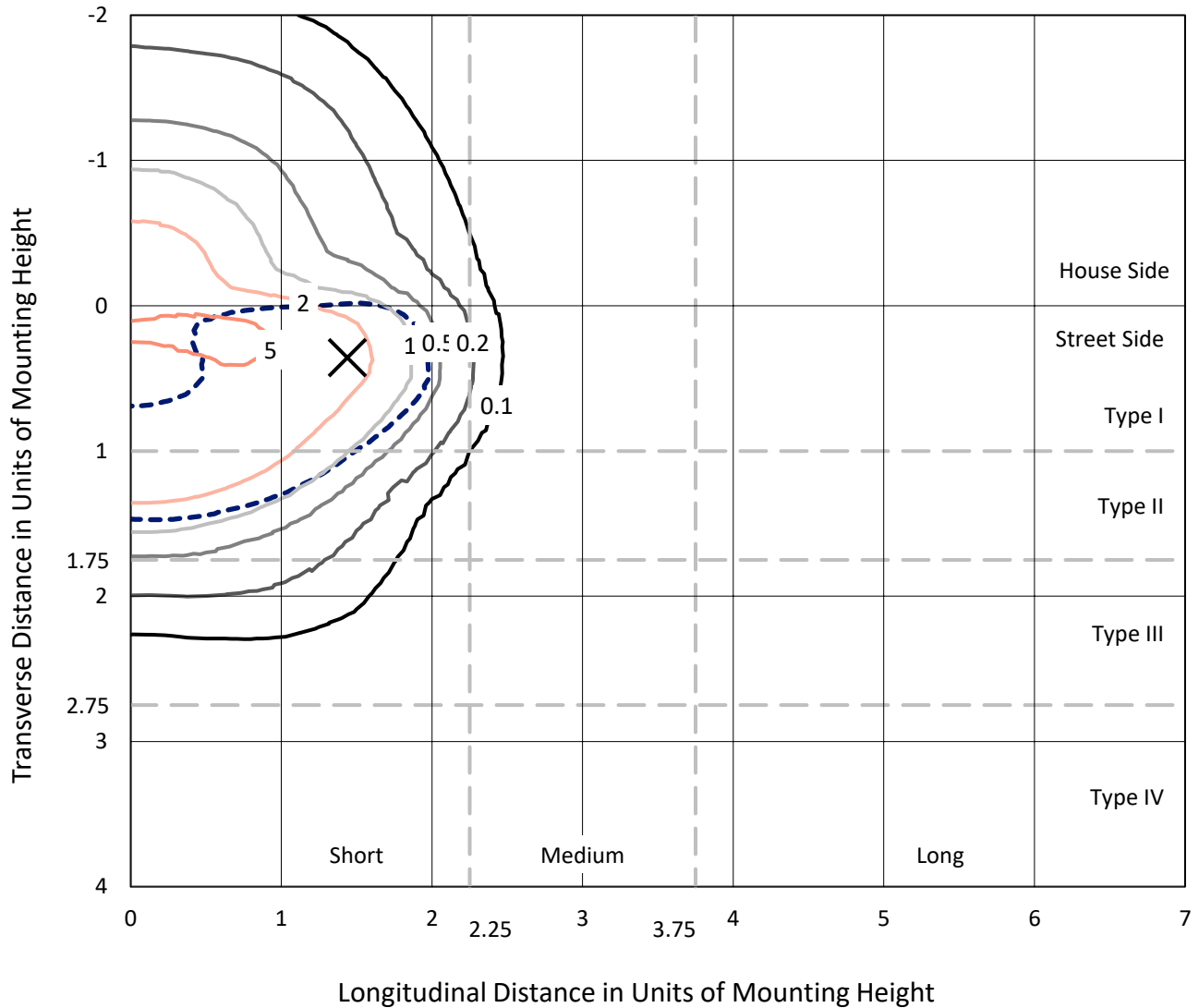
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

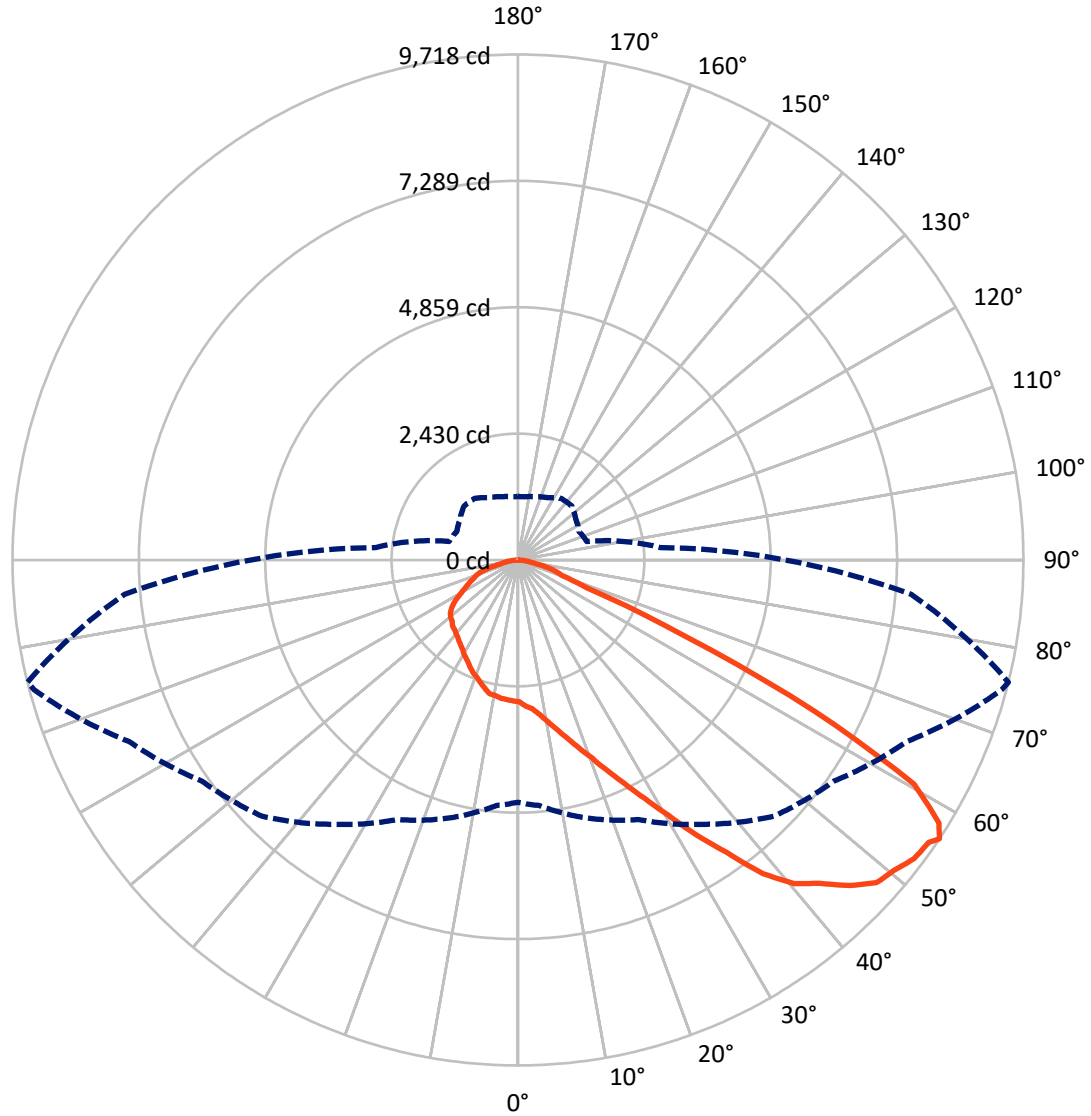
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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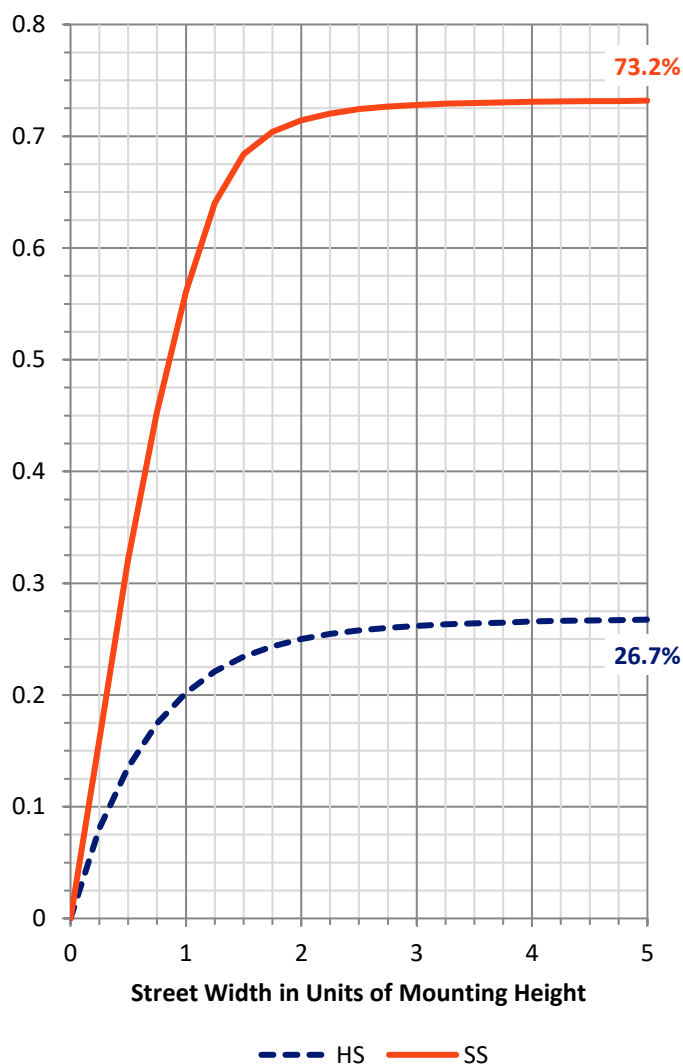
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3828.4	0.0	3828.4
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	10410.6	0.0	10410.6
	% Fixture	73.1	0.0	73.1
Total	Lumens	14239.0	0.0	14239.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.2	1.9
10°-20°	848.7	6.0
20°-30°	1484.3	10.4
30°-40°	2324.0	16.3
40°-50°	3380.8	23.7
50°-60°	3715.7	26.1
60°-70°	1658.5	11.6
70°-80°	479.0	3.4
80°-90°	77.7	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°	14239.0	100.0
0°-180°	14239.0	100.0

Coefficient of Utilization



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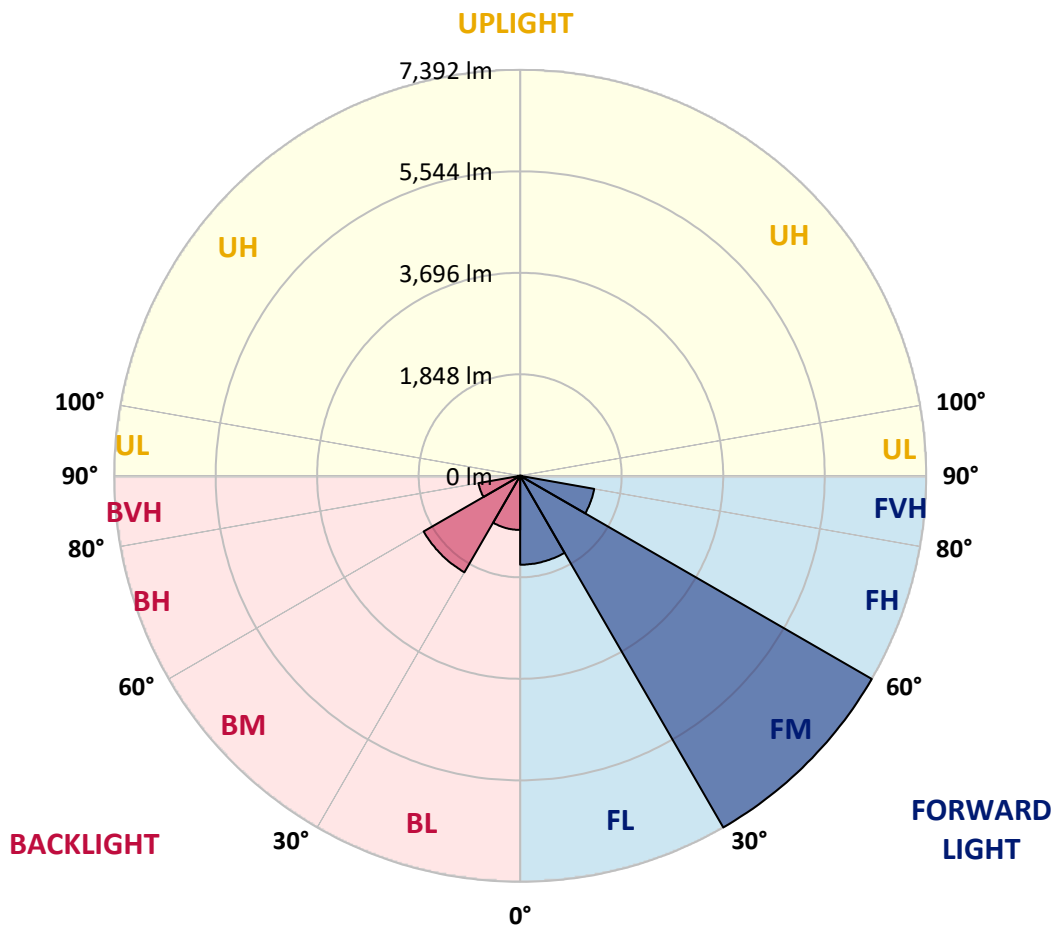
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1618.1	11.4			
FM (30°-60°)	7391.7	51.9			
FH (60°-80°)	1367.3	9.6			G1/1800
FVH (80°-90°)	33.4	0.2			G1/100
BL (0°-30°)	985.1	6.9	B2/1000		
BM (30°-60°)	2028.8	14.2	B2/2500		
BH (60°-80°)	770.3	5.4	B2/1000		G2/1000
BVH (80°-90°)	44.3	0.3			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°	75°	76°	85°
0°	2724.4	2724.4	2724.4	2724.4	2724.4	2724.4	2724.4	2724.4	2724.4	2724.4	2724.4
2.5°	3001.3	2953.3	2949.6	2936.7	2944.1	2910.9	2875.8	2829.7	2781.7	2811.2	2741.1
5°	3211.7	3147.1	3173.0	3128.7	3134.2	3089.9	3017.9	2964.4	2905.3	2870.3	2820.4
7.5°	3285.6	3291.1	3309.6	3302.2	3265.3	3265.3	3217.3	3123.1	3019.8	2999.5	2916.4
10°	3385.3	3387.1	3366.8	3372.3	3424.0	3400.0	3357.6	3317.0	3184.1	3160.1	3012.4
12.5°	3420.3	3387.1	3420.3	3449.9	3510.8	3544.0	3534.8	3505.2	3363.1	3346.5	3130.5
15°	3425.9	3405.6	3433.2	3499.7	3553.2	3693.5	3763.7	3743.3	3555.1	3556.9	3263.4
17.5°	3400.0	3427.7	3438.8	3496.0	3619.7	3750.7	3953.8	3981.5	3826.4	3802.4	3431.4
20°	3435.1	3414.8	3429.6	3481.2	3645.5	3850.4	4116.2	4298.9	4081.1	4064.5	3604.9
22.5°	3569.8	3542.2	3538.5	3571.7	3689.8	3902.1	4287.9	4616.4	4391.2	4400.5	3820.9
25°	3675.1	3689.8	3676.9	3675.1	3748.9	3979.6	4514.9	4994.8	4812.1	4758.6	4075.6
27.5°	3855.9	3891.0	3865.2	3900.2	3883.6	4095.9	4677.3	5413.8	5266.2	5194.2	4306.3
30°	4107.0	4125.4	4101.4	4101.4	4051.6	4258.3	4825.0	5851.3	5790.4	5692.5	4577.7
32.5°	4437.4	4465.1	4417.1	4389.4	4382.0	4500.1	5090.8	6283.2	6386.6	6303.5	4937.6
35°	4874.8	4858.2	4801.0	4775.2	4675.5	4871.2	5485.8	6779.7	7051.1	6903.4	5373.2
37.5°	5260.6	5234.8	5231.1	5087.1	5111.1	5271.7	5821.8	7156.3	7695.3	7652.8	5832.8
40°	5620.6	5644.6	5683.3	5602.1	5565.2	5742.4	6213.1	7444.2	8195.5	8178.9	6187.2
42.5°	6006.3	5984.2	6052.5	5984.2	5928.8	6179.8	6637.6	7643.6	8634.8	8498.2	6558.2
45°	6565.6	6495.5	6519.5	6525.0	6484.4	6576.7	6813.0	7787.6	8943.1	8928.3	6829.6
47.5°	7032.6	7034.5	6993.9	6962.5	6838.8	6931.1	7008.6	7878.0	9297.5	9273.5	6934.8
50°	7206.1	7182.1	7300.3	7368.6	7375.9	7187.7	7161.8	7927.9	9483.9	9378.7	7040.0
52.5°	6582.2	6604.4	6790.8	7196.9	7431.3	7451.6	7340.9	8031.2	9559.6	9537.4	7124.9
55°	5297.5	5404.6	5711.0	6179.8	6735.4	7346.4	7534.7	8138.3	9600.2	9581.7	7501.5
56°	4657.0	4740.1	5138.8	5506.1	6203.8	6964.3	7412.9	8252.7	9631.6	9718.3	7590.1
57.5°	3748.9	3844.9	4131.0	4548.1	5371.4	6237.1	7076.9	8112.4	9509.7	9543.0	7654.7
60°	2344.2	2353.4	2696.8	2971.8	3551.4	4396.8	5400.9	7058.5	8800.9	8752.9	6875.7
62.5°	1537.6	1539.4	1851.4	2076.6	2340.5	2534.3	3178.5	4681.0	6493.6	6408.7	4895.1
65°	1079.8	1103.8	1345.6	1646.5	1753.5	1652.0	1631.7	2467.9	3627.1	3505.2	2630.3
67.5°	790.0	791.9	1006.0	1329.0	1484.0	1257.0	1020.7	1205.3	1436.1	1432.4	1218.2
70°	522.4	544.5	708.8	993.1	1170.3	1009.7	834.3	862.0	913.7	913.7	906.3
72.5°	304.6	324.9	433.8	629.4	657.1	631.3	660.8	738.3	771.6	769.7	760.5
75°	173.5	182.7	206.7	262.1	326.7	385.8	485.5	559.3	592.5	612.8	588.8
77.5°	101.5	107.1	121.8	149.5	169.8	208.6	264.0	315.6	359.9	354.4	358.1
80°	53.5	53.5	68.3	88.6	118.1	147.7	175.4	204.9	228.9	234.4	240.0
82.5°	31.4	33.2	44.3	64.6	84.9	105.2	134.7	155.0	177.2	179.0	182.7
85°	16.6	18.5	27.7	42.5	57.2	64.6	66.4	62.8	68.3	64.6	73.8
87.5°	5.5	5.5	9.2	7.4	7.4	9.2	11.1	11.1	14.8	14.8	14.8
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°	2724.4	2724.4	2724.4	2724.4	2724.4	2724.4	2724.4	2724.4	2724.4	2724.4	2724.4
2.5°	2739.2	2739.2	2707.8	2648.8	2639.5	2615.5	2593.4	2591.5	2574.9	2560.2	2552.8
5°	2790.9	2733.7	2687.5	2634.0	2571.2	2541.7	2508.5	2471.6	2456.8	2471.6	2469.7
7.5°	2850.0	2802.0	2663.5	2563.9	2491.9	2462.3	2425.4	2386.7	2390.4	2390.4	2364.5
10°	2907.2	2842.6	2621.1	2493.7	2388.5	2366.4	2346.1	2360.8	2379.3	2383.0	2366.4
12.5°	3003.2	2857.3	2600.8	2423.6	2357.1	2309.1	2322.1	2362.7	2401.4	2390.4	2403.3
15°	3075.2	2870.3	2508.5	2351.6	2268.5	2290.7	2336.8	2364.5	2429.1	2421.7	2434.7
17.5°	3145.3	2877.7	2418.0	2255.6	2220.5	2281.4	2316.5	2395.9	2416.2	2460.5	2477.1
20°	3289.3	2892.4	2325.7	2196.5	2185.5	2255.6	2316.5	2353.4	2397.7	2436.5	2436.5
22.5°	3363.1	2885.0	2264.8	2119.0	2154.1	2198.4	2253.8	2316.5	2316.5	2353.4	2355.3
25°	3455.4	2855.5	2168.9	2082.1	2107.9	2150.4	2213.2	2191.0	2215.0	2215.0	2244.5
27.5°	3560.6	2792.7	2085.8	2015.6	2067.3	2113.5	2122.7	2107.9	2080.3	2076.6	2065.5
30°	3645.5	2715.2	2024.9	1993.5	2036.0	2061.8	2032.3	2000.9	1952.9	1949.2	1923.4
32.5°	3761.8	2619.2	1949.2	1938.1	1986.1	1988.0	1978.7	1930.7	1860.6	1831.1	1801.5
35°	3957.5	2563.9	1892.0	1908.6	1923.4	1917.8	1901.2	1849.5	1779.4	1766.5	1755.4
37.5°	4101.4	2523.3	1832.9	1853.2	1866.1	1873.5	1823.7	1766.5	1768.3	1742.5	1735.1
40°	4263.9	2497.4	1784.9	1794.1	1796.0	1820.0	1759.1	1731.4	1744.3	1727.7	1738.8
42.5°	4472.5	2504.8	1735.1	1727.7	1762.8	1753.5	1724.0	1687.1	1694.5	1644.6	1652.0
45°	4583.2	2554.6	1705.5	1672.3	1711.1	1709.2	1670.5	1635.4	1591.1	1495.1	1498.8
47.5°	4657.0	2567.6	1635.4	1613.3	1653.9	1677.9	1633.6	1552.3	1489.6	1421.3	1404.7
50°	4732.7	2591.5	1602.2	1556.0	1572.6	1629.9	1574.5	1497.0	1436.1	1375.1	1384.4
52.5°	4799.2	2637.7	1537.6	1469.3	1498.8	1561.6	1532.0	1437.9	1371.5	1321.6	1306.8
55°	5094.5	2741.1	1428.7	1340.1	1410.2	1489.6	1473.0	1358.5	1286.5	1260.7	1257.0
56°	5140.6	2744.8	1371.5	1295.8	1360.4	1465.6	1445.3	1323.5	1258.9	1218.2	1220.1
57.5°	5148.0	2700.5	1290.2	1255.2	1310.5	1430.5	1404.7	1295.8	1207.2	1170.3	1159.2
60°	4529.7	2107.9	1188.7	1166.6	1231.2	1323.5	1314.2	1220.1	1120.4	1078.0	1098.3
62.5°	3088.1	1545.0	1109.3	1105.7	1138.9	1229.3	1205.3	1120.4	1037.4	1009.7	996.7
65°	1797.8	1172.1	1031.8	1017.1	1044.7	1092.7	1109.3	1020.7	934.0	915.5	910.0
67.5°	1061.4	969.1	932.1	908.1	898.9	928.5	941.4	889.7	802.9	777.1	799.2
70°	887.8	862.0	863.8	823.2	801.1	780.8	769.7	723.6	651.6	618.4	609.1
72.5°	766.0	754.9	747.6	710.6	690.3	644.2	596.2	550.1	496.5	468.8	470.7
75°	585.1	581.4	585.1	566.7	531.6	494.7	450.4	391.3	350.7	315.6	323.0
77.5°	348.9	359.9	365.5	358.1	343.3	310.1	282.4	243.6	204.9	177.2	173.5
80°	240.0	249.2	258.4	249.2	234.4	210.4	180.9	151.4	123.7	108.9	105.2
82.5°	182.7	192.0	197.5	188.3	169.8	144.0	123.7	103.4	81.2	66.4	62.8
85°	66.4	75.7	73.8	88.6	96.0	92.3	79.4	60.9	46.1	33.2	31.4
87.5°	18.5	16.6	18.5	18.5	18.5	16.6	14.8	14.8	14.8	9.2	7.4
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)