

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: P191533

Luminaire Tested: **GLEON-AF-05-LED-E1-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191533
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-05-LED-E1-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30615.9 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

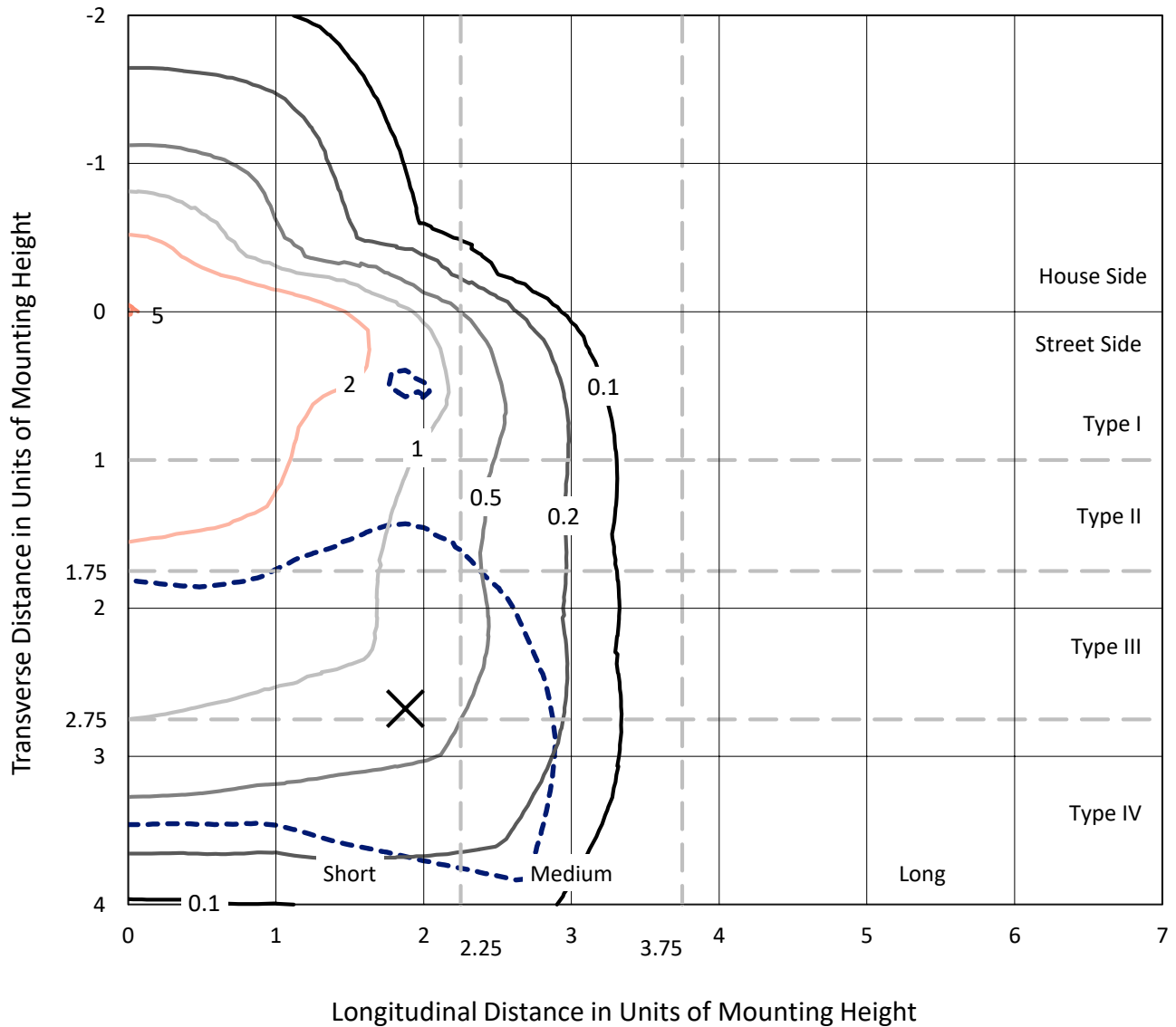
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

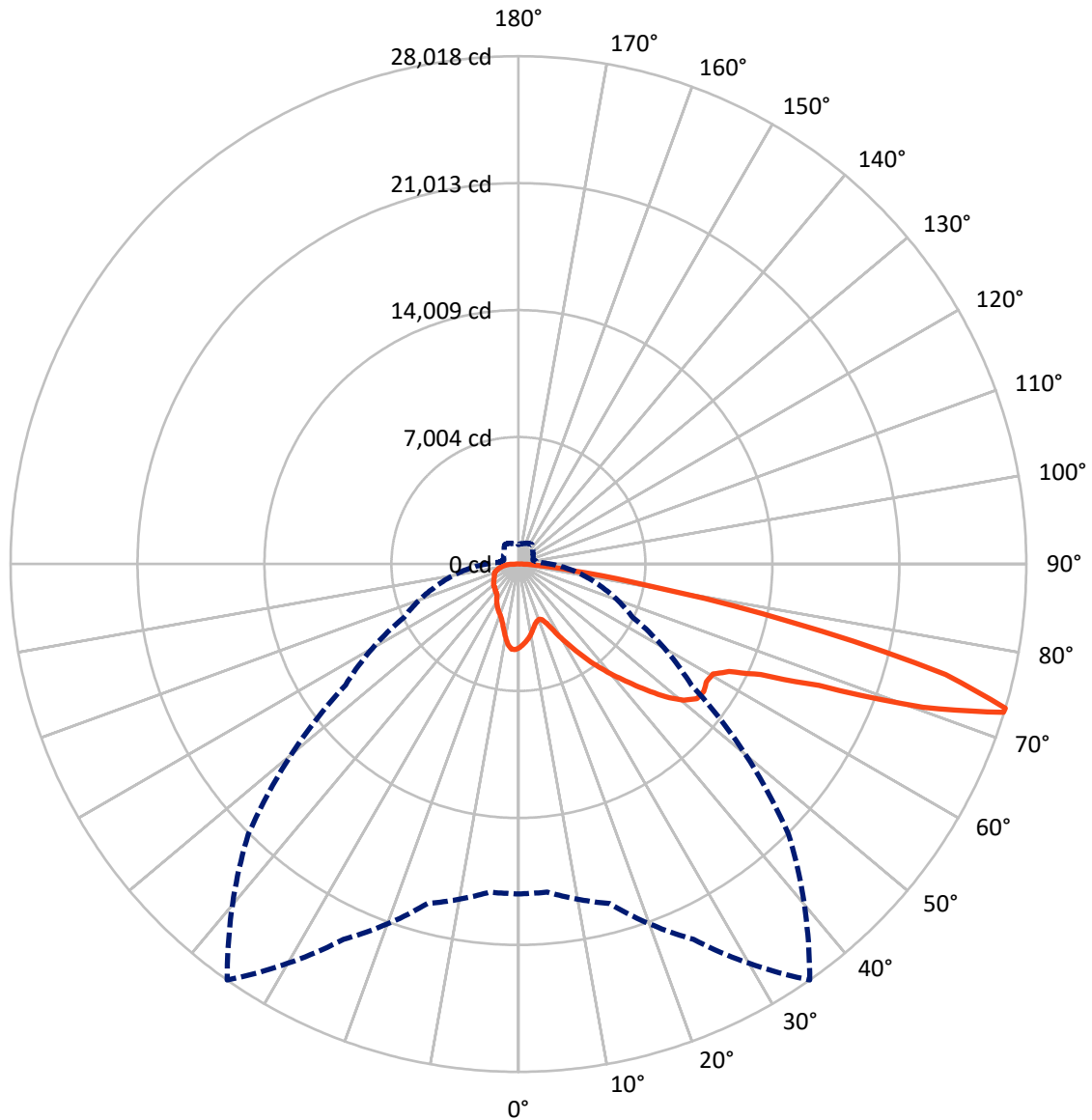
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.1 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5839.3	0.0	5839.3
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	24776.6	0.0	24776.6
	% Fixture	80.9	0.0	80.9
Total	Lumens	30615.9	0.0	30615.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	418.3	1.4
10°-20°	1044.1	3.4
20°-30°	1687.9	5.5
30°-40°	2830.4	9.2
40°-50°	4362.9	14.3
50°-60°	5853.3	19.1
60°-70°	7797.7	25.5
70°-80°	5947.3	19.4
80°-90°	674.1	2.2
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°	30615.9	100.0
0°-180°	30615.9	100.0



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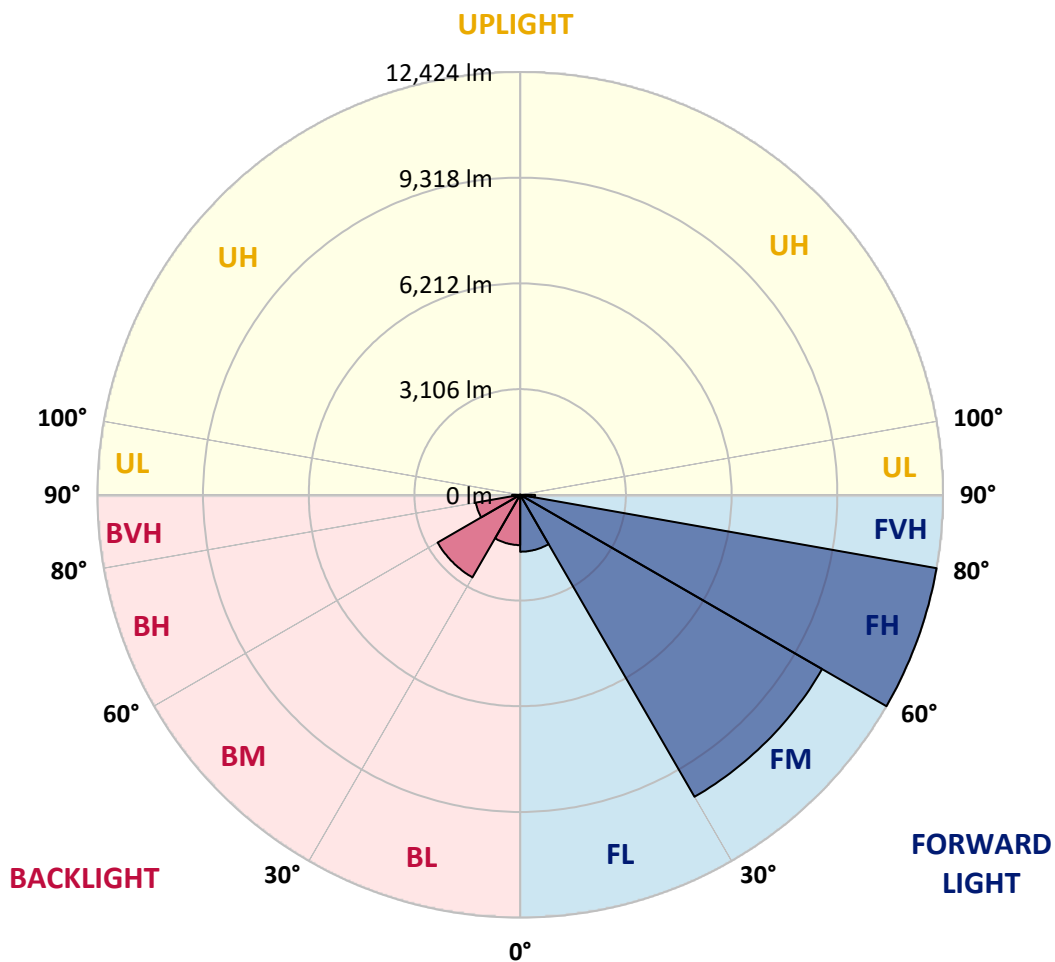
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1672.7	5.5			
FM	(30°-60°)	10244.3	33.5			
FH	(60°-80°)	12423.9	40.6			G5
FVH	(80°-90°)	435.7	1.4			G3/500
BL	(0°-30°)	1477.6	4.8	B3/2500		
BM	(30°-60°)	2802.2	9.2	B3/5000		
BH	(60°-80°)	1321.1	4.3	B3/2500		G3/2500
BVH	(80°-90°)	238.4	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4620.9	4620.9	4620.9	4620.9	4620.9	4620.9	4620.9	4620.9	4620.9	4620.9	4620.9
2.5°	4438.6	4447.4	4437.2	4450.3	4472.4	4496.0	4512.1	4535.7	4562.1	4598.9	4607.7
5°	4229.8	4243.0	4243.0	4266.5	4309.2	4347.4	4382.7	4421.0	4476.8	4540.1	4565.0
7.5°	4000.5	4007.8	4021.0	4056.3	4118.1	4172.5	4222.4	4284.2	4360.6	4444.4	4488.6
10°	3724.1	3734.4	3754.9	3805.0	3888.7	3963.7	4035.7	4121.1	4218.0	4322.5	4378.3
12.5°	3528.6	3525.6	3534.4	3571.1	3644.7	3735.8	3840.2	3949.0	4068.1	4190.1	4257.7
15°	3462.4	3446.2	3412.4	3403.6	3443.3	3534.4	3655.0	3788.7	3931.4	4078.4	4162.2
17.5°	3503.5	3475.6	3383.0	3315.4	3309.5	3378.6	3506.5	3656.4	3821.1	4000.5	4104.8
20°	3762.3	3696.1	3468.2	3310.9	3256.6	3290.3	3402.1	3560.9	3754.9	3993.1	4126.9
22.5°	4381.2	4284.2	3800.5	3507.9	3324.2	3283.0	3366.8	3535.8	3762.3	4084.2	4254.8
25°	5282.5	5144.3	4371.0	3999.0	3619.7	3400.6	3419.7	3593.2	3866.7	4296.0	4501.8
27.5°	5994.1	5904.4	5116.4	4691.5	4157.8	3718.2	3591.8	3737.2	4079.8	4643.0	4853.2
30°	6417.5	6363.1	5913.2	5476.6	4844.4	4224.0	3921.1	4007.8	4413.6	5123.7	5297.1
32.5°	6908.5	6876.2	6655.6	6254.3	5585.3	4888.5	4443.0	4412.1	4860.6	5701.5	5780.9
35°	7417.2	7407.0	7277.6	6989.4	6380.8	5764.7	5135.4	4926.7	5347.2	6301.4	6251.4
37.5°	7890.6	7873.0	7798.1	7630.4	7212.9	6705.6	5841.2	5454.5	5872.0	6874.7	6652.8
40°	8762.5	8624.3	8367.0	8240.6	8053.8	7498.1	6401.3	5947.0	6416.0	7421.6	6999.7
42.5°	9825.4	9600.5	9121.2	8947.8	8921.3	8122.9	6783.6	6424.8	6964.5	7964.2	7340.8
45°	10662.0	10450.3	10037.2	9818.1	9915.2	8688.9	7167.3	6935.0	7529.0	8533.1	7692.2
47.5°	11554.4	11222.2	10675.2	10741.4	10953.1	9224.2	7558.4	7483.4	8147.9	9169.7	8128.8
50°	11586.8	11332.5	11092.8	11488.2	11817.6	9716.7	8048.0	8058.3	8905.1	9971.0	8709.6
52.5°	10914.9	10860.5	11241.3	11863.2	12338.0	10106.2	8605.2	8652.2	9873.9	10891.4	9347.6
55°	10679.6	10617.9	11057.5	11732.3	12408.6	10428.3	9209.4	9294.7	11045.7	11861.7	9969.6
57.5°	11253.1	11116.3	11145.7	11670.5	12236.6	10781.1	9868.1	10040.1	12319.0	12710.1	10369.4
60°	12855.5	12563.0	12007.3	11994.0	12329.2	11310.4	10629.7	10839.9	13642.2	13115.8	10213.6
62.5°	15103.6	14811.0	13770.0	13092.2	13042.3	12183.7	11564.8	11620.6	14406.6	12565.9	9262.4
65°	17536.8	17275.1	16112.1	15155.0	14693.4	13630.4	12651.2	11969.0	14156.7	11053.1	7598.1
67.5°	20490.4	20209.6	19209.9	18326.3	17882.2	15965.1	13414.3	11635.2	12570.3	8562.5	5461.8
70°	22556.1	22269.3	21875.4	22591.4	23677.8	19333.4	13512.8	10278.3	9388.8	5691.2	3287.4
72.5°	19861.1	19727.4	20446.3	23461.7	27987.0	21376.9	12214.5	7483.4	5453.0	3021.3	1902.5
73°	18196.9	18167.5	19393.6	22851.6	28017.9	21062.4	11645.6	6955.6	4676.7	2672.9	1739.2
75°	8217.1	8453.8	11141.3	17454.4	24342.3	17355.9	8196.5	3990.1	2642.0	1846.6	1312.9
77.5°	1974.5	2056.8	3485.9	8289.1	15372.6	10343.0	3713.7	1973.1	1689.3	1304.1	958.6
80°	841.0	868.9	1342.3	3062.5	7237.9	4165.1	1711.3	1321.8	1168.8	910.0	671.9
82.5°	467.5	496.9	761.6	1389.4	2921.3	1420.3	1043.8	920.3	769.0	548.4	436.7
85°	264.6	280.8	445.5	776.3	1237.9	570.4	624.8	611.6	433.7	282.2	214.6
87.5°	125.0	135.2	214.6	360.2	485.2	223.5	317.5	350.0	272.0	172.1	111.7
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4620.9	4620.9	4620.9	4620.9	4620.9	4620.9	4620.9	4620.9	4620.9	4620.9
2.5°	4617.9	4644.4	4675.3	4691.5	4706.2	4723.8	4741.5	4741.5	4744.3	4745.9
5°	4585.6	4640.0	4688.5	4709.1	4713.6	4713.6	4709.1	4685.6	4665.0	4673.9
7.5°	4518.0	4597.3	4638.6	4631.2	4575.4	4510.6	4456.2	4390.1	4356.2	4350.4
10°	4421.0	4512.1	4519.4	4445.9	4307.7	4169.5	4054.9	3943.2	3890.2	3877.0
12.5°	4313.6	4397.5	4350.4	4198.9	3976.9	3775.5	3629.9	3516.8	3466.8	3453.6
15°	4226.8	4284.2	4165.1	3926.9	3647.6	3434.5	3313.8	3230.1	3194.8	3184.4
17.5°	4181.3	4193.1	3975.5	3653.5	3356.5	3178.6	3103.6	3063.9	3050.7	3043.4
20°	4203.3	4121.1	3794.6	3399.2	3118.4	2993.4	2975.8	2965.4	2962.5	2958.1
22.5°	4313.6	4099.0	3628.5	3158.1	2909.6	2855.2	2869.9	2868.4	2865.5	2862.5
25°	4510.6	4118.1	3466.8	2928.7	2734.6	2722.9	2749.3	2749.3	2737.5	2737.5
27.5°	4770.8	4157.8	3285.9	2711.1	2575.8	2577.3	2597.9	2592.0	2578.8	2570.0
30°	5088.5	4182.7	3074.2	2515.5	2427.4	2421.4	2427.4	2402.3	2362.6	2359.7
32.5°	5413.4	4151.9	2828.7	2342.0	2270.0	2256.7	2252.3	2217.0	2171.5	2158.3
35°	5707.3	4038.7	2578.8	2203.8	2120.1	2090.6	2111.3	2099.5	2058.3	2048.0
37.5°	5922.1	3828.4	2353.8	2081.8	2012.8	2005.4	2018.6	2023.0	1974.5	1964.2
40°	6066.1	3543.2	2161.2	1978.9	1992.1	1964.2	1920.1	1889.2	1874.6	1870.2
42.5°	6182.3	3246.2	1999.5	1930.4	1996.6	1915.7	1820.1	1770.1	1796.6	1808.4
45°	6316.0	2956.6	1864.2	1870.2	1974.5	1859.8	1751.0	1702.5	1712.8	1715.7
47.5°	6499.8	2603.7	1718.7	1773.1	1900.9	1821.6	1708.4	1639.3	1590.8	1568.7
50°	6754.1	2186.3	1567.3	1664.2	1828.9	1793.6	1642.2	1568.7	1479.1	1458.4
52.5°	6930.6	1796.6	1442.3	1573.1	1764.3	1737.8	1589.3	1493.7	1399.6	1382.0
55°	6835.1	1492.3	1333.5	1471.7	1679.0	1668.7	1545.2	1417.3	1343.7	1329.1
57.5°	6357.2	1299.7	1249.6	1376.1	1574.6	1609.9	1486.3	1352.6	1299.7	1289.4
60°	5445.7	1179.2	1196.8	1311.4	1489.3	1551.1	1427.6	1317.4	1282.1	1274.7
62.5°	4225.4	1098.2	1157.1	1264.4	1423.1	1509.9	1395.2	1312.9	1299.7	1290.9
65°	3027.2	1033.6	1114.4	1217.3	1362.9	1471.7	1383.4	1307.0	1310.0	1302.6
67.5°	2056.8	976.2	1062.9	1164.4	1304.1	1437.9	1367.3	1286.5	1323.2	1314.4
70°	1439.3	920.3	1002.7	1096.8	1230.6	1390.8	1337.9	1255.6	1252.6	1217.3
72.5°	1123.2	846.8	920.3	1002.7	1136.5	1324.6	1279.1	1186.4	1137.9	1101.2
73°	1071.7	829.2	899.8	982.1	1115.9	1308.5	1262.9	1167.4	1113.0	1079.1
75°	886.6	752.8	817.4	891.0	1027.7	1232.0	1183.6	1080.6	1011.5	990.9
77.5°	696.8	643.9	705.7	771.8	905.6	1120.3	1065.9	967.4	929.1	911.6
80°	516.1	533.7	588.1	646.9	785.1	1001.3	952.7	854.2	1024.7	982.1
82.5°	363.1	404.3	454.3	507.2	658.7	885.1	826.2	724.9	749.8	623.4
85°	214.6	264.6	311.7	357.2	474.9	733.7	682.2	577.8	473.4	451.3
87.5°	125.0	147.0	160.3	207.2	326.4	552.8	480.8	427.8	245.5	166.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)