

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: P192333

Luminaire Tested: **GLEON-AF-05-LED-E1-T4FT-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192333
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-7050
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 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: 29929 lumens
Efficiency: N/A
Efficacy: 107.3 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

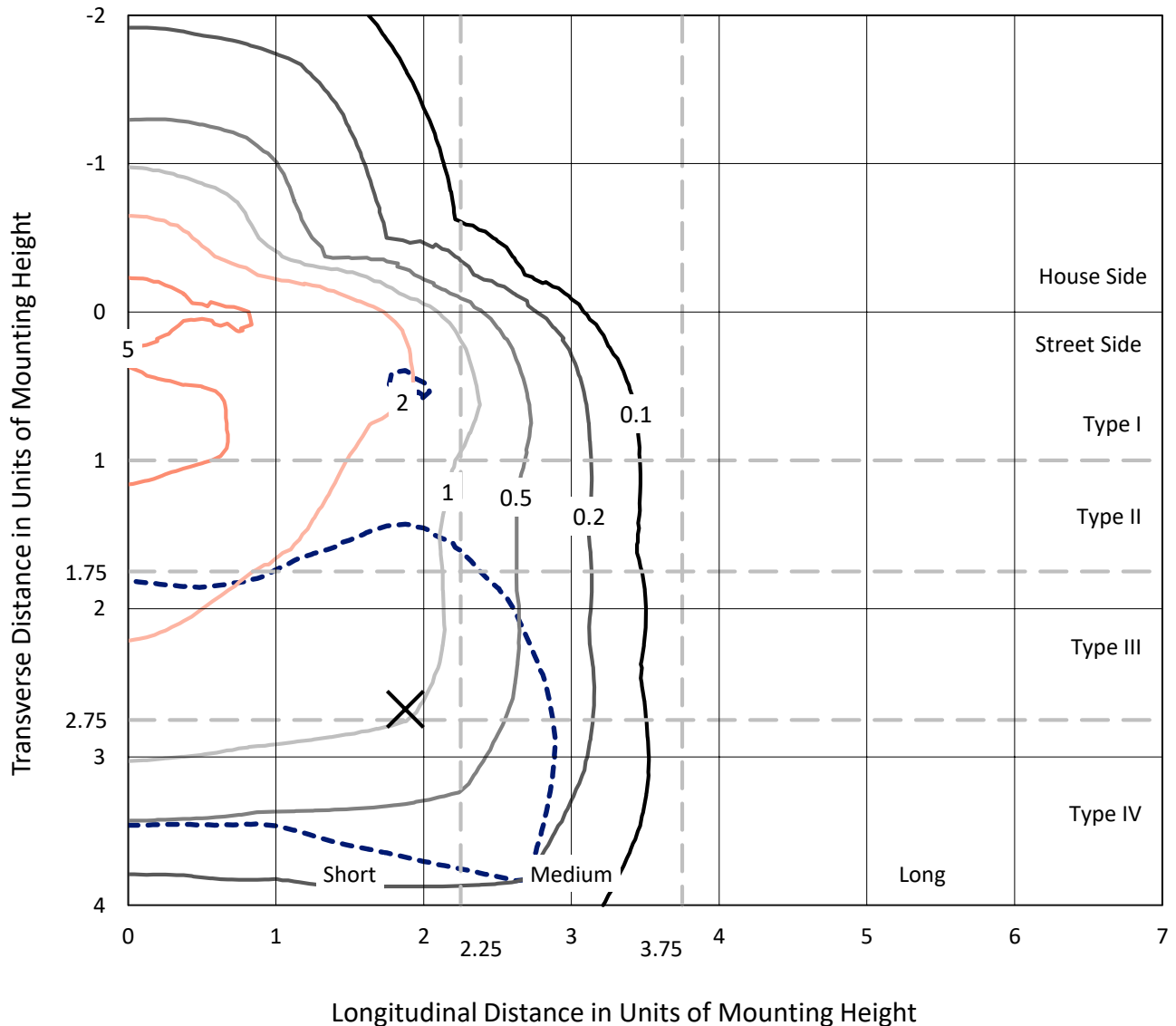


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Iso-Footcandle Lines of Horizontal Illumination

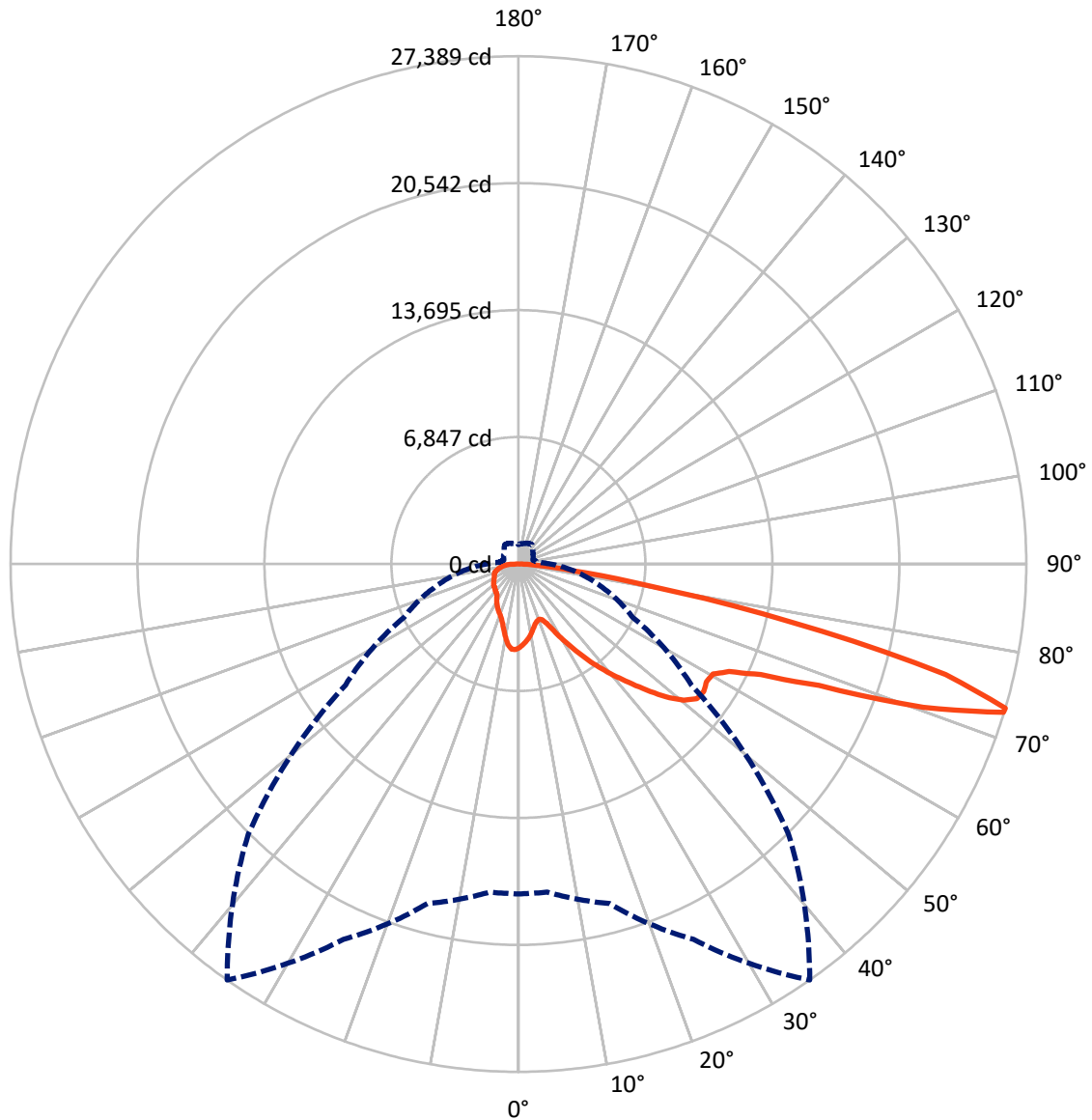
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 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	5708.3	0.0	5708.3
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	24220.7	0.0	24220.7
	% Fixture	80.9	0.0	80.9
Total	Lumens	29929.0	0.0	29929.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	408.9	1.4
10°-20°	1020.6	3.4
20°-30°	1650.0	5.5
30°-40°	2766.9	9.2
40°-50°	4265.0	14.3
50°-60°	5721.9	19.1
60°-70°	7622.8	25.5
70°-80°	5813.9	19.4
80°-90°	659.0	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°	29929.0	100.0
0°-180°	29929.0	100.0



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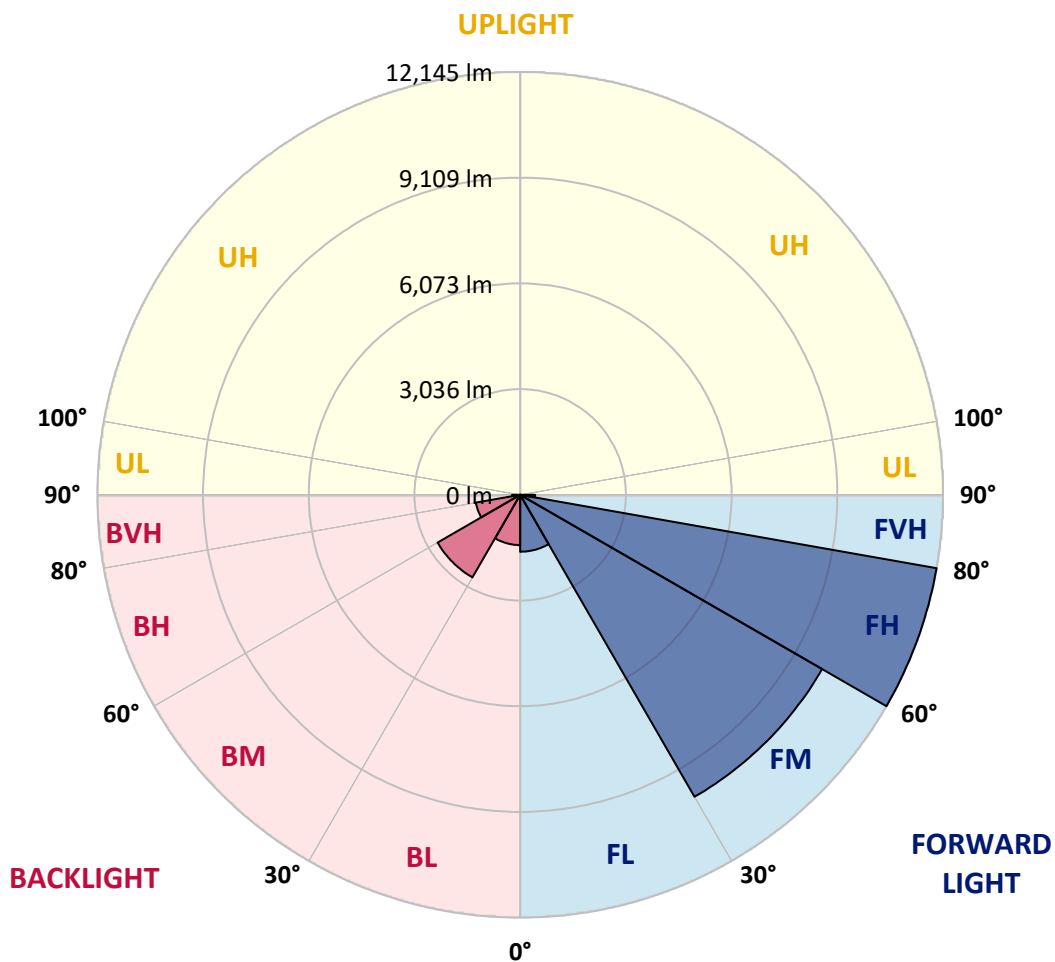
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1635.1	5.5			
FM	(30°-60°)	10014.4	33.5			
FH	(60°-80°)	12145.2	40.6			G5
FVH	(80°-90°)	426.0	1.4			G3/500
BL	(0°-30°)	1444.5	4.8	B3/2500		
BM	(30°-60°)	2739.3	9.2	B3/5000		
BH	(60°-80°)	1291.5	4.3	B3/2500		G3/2500
BVH	(80°-90°)	233.0	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°	4517.2	4517.2	4517.2	4517.2	4517.2	4517.2	4517.2	4517.2	4517.2	4517.2	4517.2
2.5°	4339.0	4347.6	4337.6	4350.5	4372.1	4395.1	4410.9	4433.9	4459.7	4495.7	4504.3
5°	4134.9	4147.8	4147.8	4170.8	4212.5	4249.9	4284.4	4321.8	4376.4	4438.2	4462.6
7.5°	3910.7	3917.9	3930.8	3965.3	4025.7	4078.9	4127.7	4188.1	4262.8	4344.7	4387.9
10°	3640.5	3650.6	3670.7	3719.6	3801.5	3874.8	3945.2	4028.6	4123.4	4225.5	4280.1
12.5°	3449.4	3446.5	3455.1	3491.0	3562.9	3652.0	3754.0	3860.4	3976.8	4096.1	4162.2
15°	3384.7	3368.9	3335.8	3327.2	3366.0	3455.1	3573.0	3703.7	3843.2	3986.9	4068.8
17.5°	3424.9	3397.6	3307.1	3241.0	3235.2	3302.8	3427.8	3574.4	3735.4	3910.7	4012.7
20°	3677.9	3613.2	3390.4	3236.6	3183.5	3216.5	3325.8	3481.0	3670.7	3903.5	4034.3
22.5°	4282.9	4188.1	3715.2	3429.2	3249.6	3209.3	3291.3	3456.5	3677.9	3992.6	4159.3
25°	5164.0	5028.9	4272.9	3909.3	3538.5	3324.3	3343.0	3512.6	3779.9	4199.6	4400.8
27.5°	5859.6	5771.9	5001.6	4586.2	4064.5	3634.8	3511.2	3653.4	3988.3	4538.8	4744.3
30°	6273.5	6220.3	5780.5	5353.7	4735.7	4129.2	3833.1	3917.9	4314.6	5008.7	5178.3
32.5°	6753.5	6721.9	6506.3	6114.0	5460.0	4778.8	4343.3	4313.1	4751.5	5573.6	5651.2
35°	7250.8	7240.8	7114.3	6832.6	6237.6	5635.4	5020.2	4816.2	5227.2	6160.0	6111.1
37.5°	7713.6	7696.4	7623.1	7459.2	7051.1	6555.2	5710.1	5332.1	5740.3	6720.5	6503.5
40°	8565.9	8430.8	8179.3	8055.7	7873.1	7329.9	6257.7	5813.6	6272.1	7255.1	6842.7
42.5°	9605.0	9385.1	8916.6	8747.0	8721.1	7940.7	6631.4	6280.7	6808.2	7785.5	7176.1
45°	10422.8	10215.8	9812.0	9597.8	9692.7	8494.0	7006.5	6779.4	7360.1	8341.7	7519.6
47.5°	11295.2	10970.4	10435.7	10500.4	10707.4	9017.2	7388.8	7315.5	7965.1	8964.0	7946.4
50°	11326.8	11078.2	10843.9	11230.5	11552.5	9498.7	7867.4	7877.5	8705.3	9747.3	8514.2
52.5°	10670.0	10616.8	10989.1	11597.0	12061.2	9879.5	8412.1	8458.1	9652.4	10647.0	9137.9
55°	10440.0	10379.7	10809.4	11469.1	12130.2	10194.3	9002.8	9086.2	10797.9	11595.6	9745.9
57.5°	11000.6	10866.9	10895.6	11408.7	11962.1	10539.2	9646.7	9814.8	12042.6	12424.9	10136.8
60°	12567.1	12281.1	11737.9	11724.9	12052.6	11056.6	10391.2	10596.7	13336.1	12821.5	9984.4
62.5°	14764.7	14478.7	13461.1	12798.5	12749.7	11910.3	11305.3	11359.9	14083.4	12284.0	9054.6
65°	17143.3	16887.5	15750.6	14815.0	14363.7	13324.6	12367.4	11700.5	13839.1	10805.1	7427.6
67.5°	20030.7	19756.2	18778.9	17915.1	17481.0	15606.9	13113.3	11374.2	12288.3	8370.4	5339.3
70°	22050.0	21769.7	21384.6	22084.5	23146.6	18899.6	13209.6	10047.7	9178.2	5563.5	3213.6
72.5°	19415.5	19284.8	19987.6	22935.3	27359.1	20897.3	11940.5	7315.5	5330.7	2953.5	1859.8
73°	17788.6	17759.9	18958.5	22338.9	27389.3	20589.8	11384.3	6799.5	4571.8	2612.9	1700.2
75°	8032.7	8264.1	10891.3	17062.8	23796.2	16966.5	8012.6	3900.6	2582.7	1805.2	1283.4
77.5°	1930.2	2010.7	3407.7	8103.1	15027.7	10110.9	3630.4	1928.8	1651.4	1274.8	937.1
80°	822.1	849.4	1312.2	2993.8	7075.5	4071.7	1672.9	1292.1	1142.6	889.6	656.8
82.5°	457.0	485.8	744.5	1358.2	2855.8	1388.4	1020.4	899.7	751.7	536.1	426.9
85°	258.7	274.5	435.5	758.9	1210.1	557.6	610.8	597.9	424.0	275.9	209.8
87.5°	122.2	132.2	209.8	352.1	474.3	218.5	310.4	342.1	265.9	168.2	109.2
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4517.2	4517.2	4517.2	4517.2	4517.2	4517.2	4517.2	4517.2	4517.2	4517.2
2.5°	4514.3	4540.2	4570.4	4586.2	4600.6	4617.8	4635.1	4635.1	4637.9	4639.4
5°	4482.7	4535.9	4583.3	4603.4	4607.8	4607.8	4603.4	4580.5	4560.3	4569.0
7.5°	4416.6	4494.2	4534.5	4527.3	4472.7	4409.4	4356.2	4291.6	4258.5	4252.8
10°	4321.8	4410.9	4418.0	4346.2	4211.1	4076.0	3963.9	3854.7	3802.9	3790.0
12.5°	4216.8	4298.8	4252.8	4104.7	3887.7	3690.8	3548.5	3437.9	3389.0	3376.1
15°	4132.0	4188.1	4071.7	3838.8	3565.8	3357.4	3239.5	3157.6	3123.1	3113.0
17.5°	4087.5	4099.0	3886.3	3571.5	3281.2	3107.3	3034.0	2995.2	2982.3	2975.1
20°	4109.0	4028.6	3709.5	3322.9	3048.4	2926.2	2909.0	2898.9	2896.0	2891.7
22.5°	4216.8	4007.0	3547.1	3087.2	2844.3	2791.1	2805.5	2804.0	2801.2	2798.3
25°	4409.4	4025.7	3389.0	2863.0	2673.2	2661.8	2687.6	2687.6	2676.1	2676.1
27.5°	4663.8	4064.5	3212.2	2650.3	2518.0	2519.5	2539.6	2533.8	2520.9	2512.3
30°	4974.3	4088.9	3005.2	2459.1	2372.9	2367.1	2372.9	2348.4	2309.6	2306.8
32.5°	5291.9	4058.7	2765.2	2289.5	2219.1	2206.1	2201.8	2167.3	2122.8	2109.9
35°	5579.3	3948.1	2520.9	2154.4	2072.5	2043.7	2063.9	2052.4	2012.1	2002.1
37.5°	5789.2	3742.5	2301.0	2035.1	1967.6	1960.4	1973.3	1977.6	1930.2	1920.1
40°	5930.0	3463.7	2112.7	1934.5	1947.4	1920.1	1877.0	1846.8	1832.5	1828.2
42.5°	6043.6	3173.4	1954.6	1887.1	1951.8	1872.7	1779.3	1730.4	1756.3	1767.8
45°	6174.3	2890.3	1822.4	1828.2	1930.2	1818.1	1711.7	1664.3	1674.4	1677.2
47.5°	6354.0	2545.3	1680.1	1733.3	1858.3	1780.7	1670.1	1602.5	1555.1	1533.5
50°	6602.6	2137.2	1532.1	1626.9	1787.9	1753.4	1605.4	1533.5	1445.9	1425.7
52.5°	6775.1	1756.3	1409.9	1537.8	1724.7	1698.8	1553.6	1460.2	1368.2	1351.0
55°	6681.7	1458.8	1303.6	1438.7	1641.3	1631.3	1510.5	1385.5	1313.6	1299.3
57.5°	6214.6	1270.5	1221.6	1345.2	1539.3	1573.8	1453.0	1322.3	1270.5	1260.5
60°	5323.5	1152.7	1169.9	1282.0	1455.9	1516.3	1395.6	1287.8	1253.3	1246.1
62.5°	4130.6	1073.6	1131.1	1236.0	1391.2	1476.0	1363.9	1283.4	1270.5	1261.9
65°	2959.3	1010.4	1089.4	1190.0	1332.3	1438.7	1352.4	1277.7	1280.6	1273.4
67.5°	2010.7	954.3	1039.1	1138.3	1274.8	1405.6	1336.6	1257.6	1293.5	1284.9
70°	1407.0	899.7	980.2	1072.2	1203.0	1359.6	1307.9	1227.4	1224.5	1190.0
72.5°	1098.0	827.8	899.7	980.2	1111.0	1294.9	1250.4	1159.8	1112.4	1076.5
73°	1047.7	810.6	879.6	960.1	1090.9	1279.1	1234.6	1141.2	1088.0	1054.9
75°	866.7	735.9	799.1	871.0	1004.6	1204.4	1157.0	1056.4	988.8	968.7
77.5°	681.2	629.5	689.9	754.5	885.3	1095.2	1042.0	945.7	908.3	891.1
80°	504.5	521.7	574.9	632.4	767.5	978.8	931.3	835.0	1001.7	960.1
82.5°	355.0	395.2	444.1	495.8	643.9	865.2	807.7	708.6	733.0	609.4
85°	209.8	258.7	304.7	349.2	464.2	717.2	666.9	564.8	462.8	441.2
87.5°	122.2	143.7	156.7	202.6	319.1	540.4	470.0	418.2	240.0	162.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)