

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: P269754

Luminaire Tested: **GLEON-AF-10-LED-E1-T4FT-7027-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269754  
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-10-LED-E1-T4FT-7027-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 2700K, 615mA 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: 33928.9 lumens  
Efficiency: N/A  
Efficacy: 105.0 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G5

Input Watts (W): 323  
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

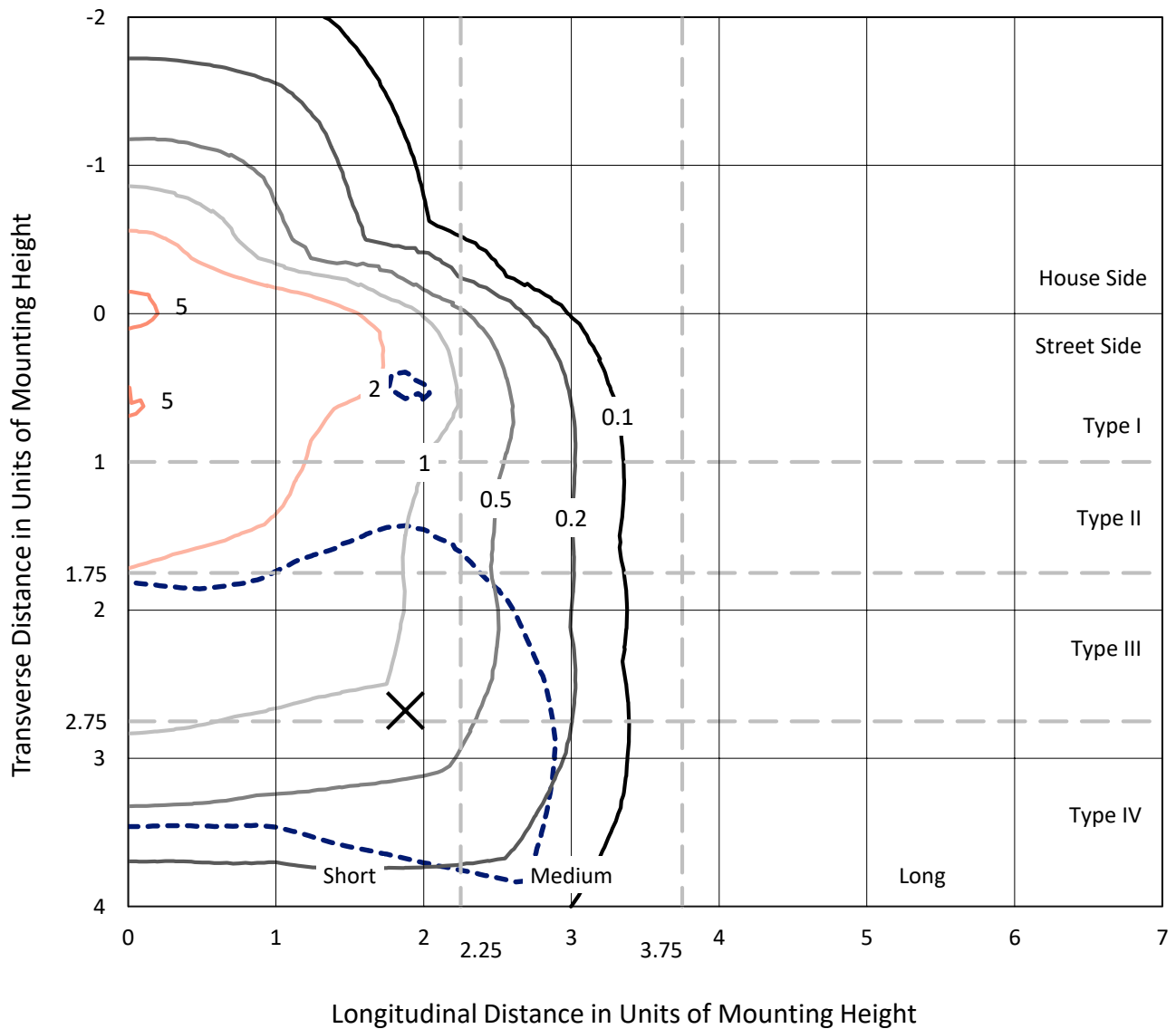


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

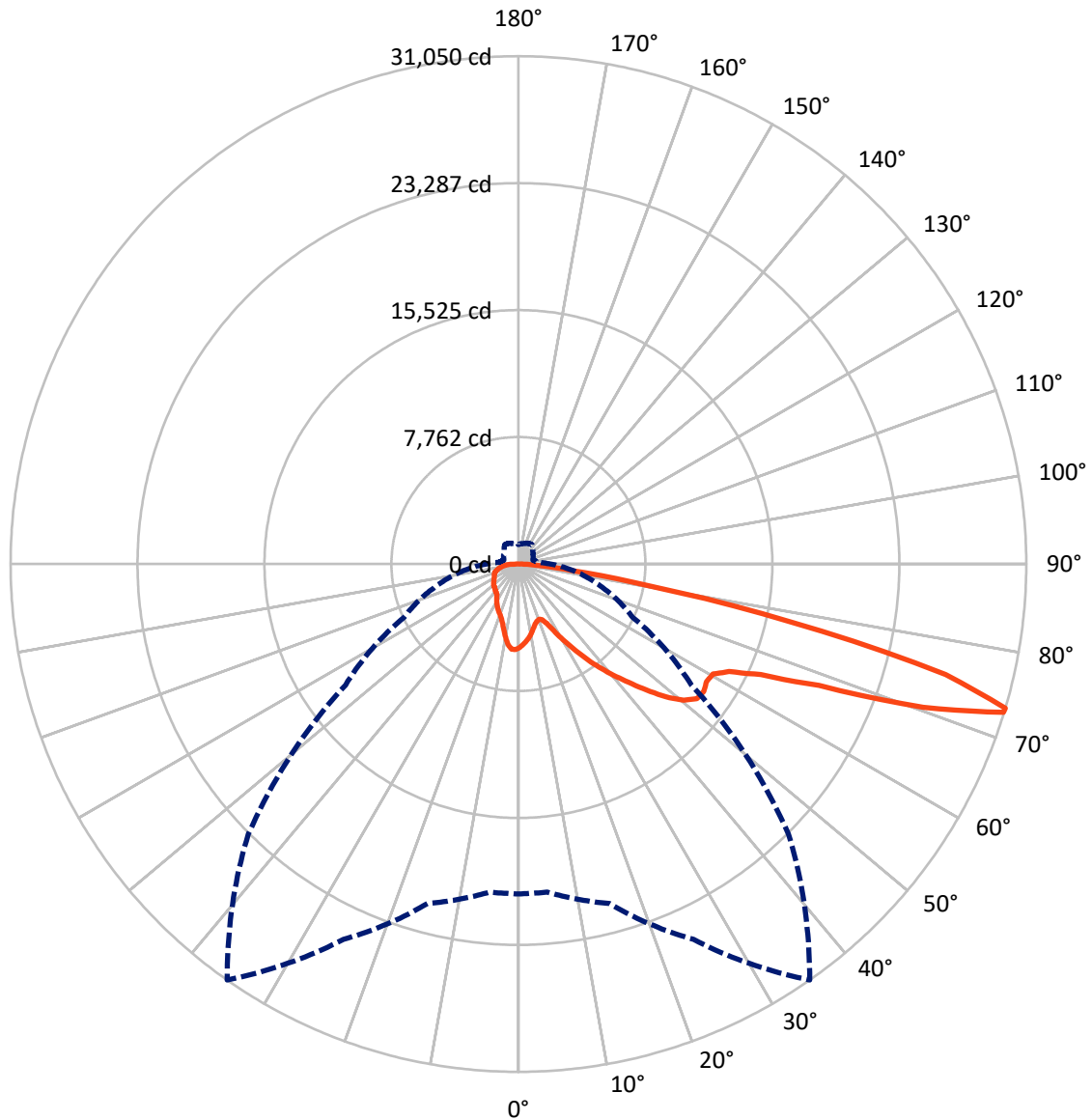


Based on 30 foot mounting height. Maximum calculated value = 5.7 fc  
 Type IV - Short - Non-Cutoff

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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
<b>House Side</b>	Lumens	6471.2	0.0	6471.2
	% Fixture	19.1	0.0	19.1
<b>Street Side</b>	Lumens	27457.7	0.0	27457.7
	% Fixture	80.9	0.0	80.9
<b>Total</b>	Lumens	33928.9	0.0	33928.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	463.6	1.4
10°-20°	1157.0	3.4
20°-30°	1870.5	5.5
30°-40°	3136.6	9.2
40°-50°	4835.0	14.3
50°-60°	6486.6	19.1
60°-70°	8641.5	25.5
70°-80°	6590.9	19.4
80°-90°	747.0	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°	33928.9	100.0
0°-180°	33928.9	100.0



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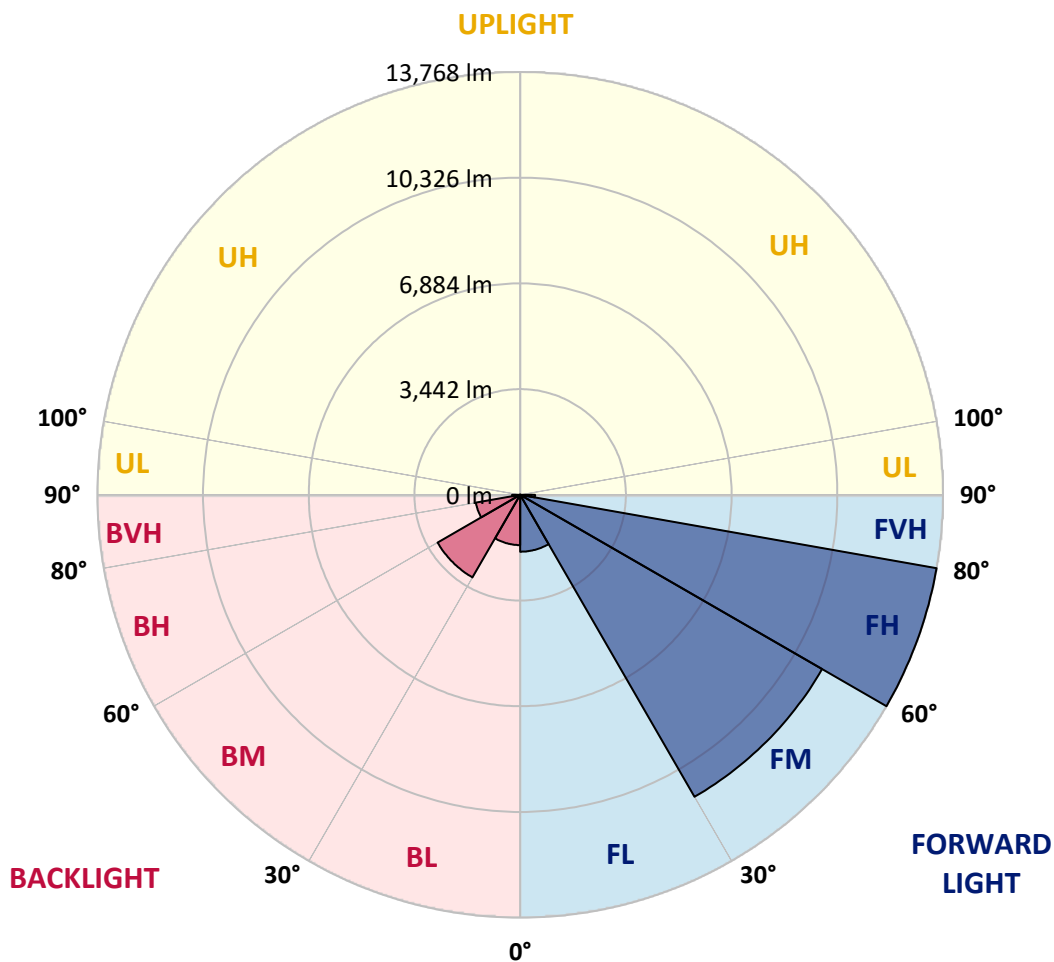
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1853.7	5.5			
FM	(30°-60°)	11352.8	33.5			
FH	(60°-80°)	13768.3	40.6			G5
FVH	(80°-90°)	482.9	1.4			G3/500
BL	(0°-30°)	1637.5	4.8	B3/2500		
BM	(30°-60°)	3105.4	9.2	B3/5000		
BH	(60°-80°)	1464.1	4.3	B3/2500		G3/2500
BVH	(80°-90°)	264.2	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°	5120.9	5120.9	5120.9	5120.9	5120.9	5120.9	5120.9	5120.9	5120.9	5120.9	5120.9
2.5°	4918.8	4928.7	4917.2	4932.0	4956.4	4982.4	5000.3	5026.5	5055.8	5096.4	5106.2
5°	4687.5	4702.2	4702.2	4728.3	4775.5	4817.9	4857.0	4899.4	4961.2	5031.2	5059.1
7.5°	4433.3	4441.5	4456.1	4495.3	4563.7	4623.9	4679.5	4747.8	4832.5	4925.3	4974.3
10°	4127.1	4138.4	4161.3	4216.6	4309.4	4392.6	4472.4	4567.0	4674.5	4790.1	4852.0
12.5°	3910.3	3907.1	3916.9	3957.7	4039.0	4140.1	4255.7	4376.4	4508.4	4643.5	4718.4
15°	3837.0	3819.1	3781.7	3771.9	3815.8	3916.9	4050.5	4198.7	4356.8	4519.7	4612.5
17.5°	3882.7	3851.8	3749.0	3674.1	3667.6	3744.1	3885.9	4052.1	4234.6	4433.3	4549.0
20°	4169.5	4096.1	3843.6	3669.1	3608.9	3646.4	3770.2	3946.2	4161.3	4425.2	4573.5
22.5°	4855.2	4747.8	4211.8	3887.5	3683.9	3638.2	3731.1	3918.4	4169.5	4526.2	4715.3
25°	5854.2	5701.0	4843.9	4431.7	4011.3	3768.6	3789.8	3982.0	4285.1	4760.8	4988.9
27.5°	6642.6	6543.3	5670.0	5199.1	4607.6	4120.5	3980.4	4141.6	4521.3	5145.3	5378.3
30°	7111.9	7051.6	6553.0	6069.2	5368.6	4681.0	4345.5	4441.5	4891.2	5678.1	5870.5
32.5°	7656.2	7620.3	7375.9	6931.1	6189.7	5417.5	4923.8	4889.6	5386.4	6318.5	6406.4
35°	8219.9	8208.4	8065.1	7745.7	7071.2	6388.6	5691.2	5459.8	5925.8	6983.2	6927.8
37.5°	8744.6	8725.0	8641.9	8456.1	7993.4	7431.3	6473.2	6044.8	6507.4	7618.6	7372.6
40°	9710.7	9557.5	9272.3	9132.3	8925.4	8309.5	7094.1	6590.5	7110.4	8224.7	7757.1
42.5°	10888.6	10639.3	10108.2	9916.0	9886.7	9001.9	7517.6	7120.1	7718.1	8825.9	8135.1
45°	11815.8	11581.0	11123.4	10880.5	10988.1	9629.2	7942.9	7685.4	8343.6	9456.5	8524.6
47.5°	12804.7	12436.6	11830.4	11903.7	12138.3	10222.4	8376.2	8293.2	9029.7	10161.9	9008.5
50°	12840.6	12558.8	12293.1	12731.4	13096.4	10768.2	8918.8	8930.2	9868.7	11050.1	9652.0
52.5°	12095.9	12035.8	12457.7	13146.9	13673.1	11199.9	9536.3	9588.5	10942.4	12069.8	10359.2
55°	11835.3	11766.9	12254.0	13001.9	13751.3	11556.6	10206.1	10300.4	12241.1	13145.3	11048.3
57.5°	12470.7	12319.1	12351.8	12933.4	13560.8	11947.6	10936.0	11126.5	13652.0	14085.3	11491.5
60°	14246.7	13922.4	13306.6	13292.0	13663.4	12534.3	11780.0	12012.9	15118.4	14535.0	11318.9
62.5°	16737.8	16413.7	15260.0	14509.0	14453.5	13502.1	12816.2	12878.0	15965.5	13925.6	10264.7
65°	19434.4	19144.4	17855.6	16794.9	16283.2	15105.3	14020.1	13264.3	15688.5	12249.2	8420.3
67.5°	22707.6	22396.5	21288.6	20309.3	19817.2	17692.7	14865.8	12894.4	13930.6	9489.1	6052.9
70°	24996.9	24679.1	24242.5	25035.9	26240.0	21425.5	14974.9	11390.5	10404.8	6307.1	3643.2
72.5°	22010.4	21862.1	22658.8	26000.5	31015.5	23690.1	13536.3	8293.2	6043.1	3348.3	2108.3
73°	20166.0	20133.4	21492.2	25324.4	31049.7	23341.5	12905.8	7708.3	5182.9	2962.2	1927.5
75°	9106.2	9368.6	12346.9	19343.2	26976.5	19234.0	9083.4	4421.9	2927.8	2046.3	1455.0
77.5°	2188.1	2279.4	3863.2	9186.1	17036.0	11462.2	4115.7	2186.6	1872.1	1445.3	1062.3
80°	931.9	963.0	1487.6	3393.8	8021.1	4615.9	1896.5	1464.7	1295.3	1008.5	744.5
82.5°	518.1	550.8	844.0	1539.7	3237.4	1573.9	1156.7	1019.9	852.1	607.8	483.8
85°	293.2	311.3	493.7	860.2	1371.9	632.1	692.5	677.9	480.7	312.8	238.0
87.5°	138.5	149.8	238.0	399.1	537.6	247.7	352.0	387.8	301.4	190.6	123.8
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5120.9	5120.9	5120.9	5120.9	5120.9	5120.9	5120.9	5120.9	5120.9	5120.9
2.5°	5117.6	5147.0	5181.2	5199.1	5215.4	5235.0	5254.5	5254.5	5257.8	5259.3
5°	5081.8	5142.1	5195.8	5218.7	5223.6	5223.6	5218.7	5192.7	5169.7	5179.5
7.5°	5006.9	5094.8	5140.6	5132.3	5070.5	4998.7	4938.4	4865.1	4827.6	4821.2
10°	4899.4	5000.3	5008.5	4927.1	4773.9	4620.7	4493.6	4369.9	4311.1	4296.6
12.5°	4780.4	4873.2	4821.2	4653.3	4407.3	4184.0	4022.8	3897.2	3842.0	3827.3
15°	4684.2	4747.8	4615.9	4351.8	4042.4	3806.1	3672.5	3579.6	3540.5	3529.1
17.5°	4633.7	4646.8	4405.6	4048.8	3719.7	3522.6	3439.5	3395.5	3380.9	3372.6
20°	4658.3	4567.0	4205.2	3767.0	3455.8	3317.4	3297.7	3286.3	3283.0	3278.2
22.5°	4780.4	4542.5	4021.2	3499.7	3224.3	3164.1	3180.4	3178.8	3175.5	3172.3
25°	4998.7	4563.7	3842.0	3245.5	3030.5	3017.4	3046.8	3046.8	3033.8	3033.8
27.5°	5287.2	4607.6	3641.5	3004.4	2854.5	2856.3	2879.0	2872.5	2857.8	2848.0
30°	5639.0	4635.3	3406.9	2787.7	2690.0	2683.4	2690.0	2662.2	2618.3	2615.1
32.5°	5999.2	4601.2	3134.7	2595.6	2515.7	2501.1	2496.1	2457.0	2406.5	2391.8
35°	6325.0	4475.7	2857.8	2442.3	2349.4	2316.9	2339.6	2326.7	2281.1	2269.6
37.5°	6562.8	4242.8	2608.5	2307.0	2230.5	2222.3	2237.0	2241.9	2188.1	2176.8
40°	6722.6	3926.6	2395.2	2193.0	2207.8	2176.8	2127.8	2093.7	2077.4	2072.5
42.5°	6851.3	3597.5	2215.8	2139.3	2212.5	2123.0	2017.1	1961.7	1991.1	2004.1
45°	6999.6	3276.6	2065.9	2072.5	2188.1	2061.2	1940.5	1886.7	1898.2	1901.4
47.5°	7203.1	2885.4	1904.6	1965.0	2106.6	2018.8	1893.3	1816.7	1763.0	1738.5
50°	7485.0	2422.8	1736.9	1844.4	2026.8	1987.8	1820.0	1738.5	1639.0	1616.3
52.5°	7680.6	1991.1	1598.4	1743.4	1955.3	1925.8	1761.2	1655.3	1551.2	1531.5
55°	7574.7	1653.8	1477.8	1631.0	1860.7	1849.3	1712.3	1570.6	1489.2	1473.0
57.5°	7045.1	1440.3	1384.8	1525.1	1745.0	1784.2	1647.2	1498.9	1440.3	1428.9
60°	6035.0	1306.8	1326.3	1453.4	1650.5	1718.9	1582.1	1459.8	1420.8	1412.7
62.5°	4682.7	1217.2	1282.3	1401.1	1577.2	1673.4	1546.3	1455.0	1440.3	1430.6
65°	3354.7	1145.3	1235.0	1349.1	1510.4	1631.0	1533.1	1448.4	1451.8	1443.5
67.5°	2279.4	1081.9	1177.9	1290.4	1445.3	1593.5	1515.3	1425.6	1466.4	1456.6
70°	1595.1	1019.9	1111.3	1215.4	1363.7	1541.3	1482.7	1391.5	1388.2	1349.1
72.5°	1244.8	938.5	1019.9	1111.3	1259.5	1468.0	1417.4	1314.8	1261.1	1220.3
73°	1187.7	919.0	997.2	1088.3	1236.6	1450.0	1399.6	1293.6	1233.5	1196.0
75°	982.4	834.2	905.9	987.3	1139.0	1365.3	1311.5	1197.5	1120.9	1098.2
77.5°	772.4	713.7	782.1	855.4	1003.6	1241.5	1181.2	1072.0	1029.7	1010.1
80°	572.0	591.4	651.7	716.8	870.1	1109.5	1055.8	946.6	1135.6	1088.3
82.5°	402.4	448.1	503.5	562.1	730.0	980.8	915.6	803.3	830.9	690.8
85°	238.0	293.2	345.4	396.0	526.2	813.1	756.1	640.3	524.6	500.1
87.5°	138.5	163.0	177.5	229.7	361.7	612.6	532.8	474.1	272.0	184.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)