

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: P269428

Luminaire Tested: **GLEON-AF-06-LED-E1-T3-7027-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269428  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-06-LED-E1-T3-7027-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33937.7 lumens  
Efficiency: N/A  
Efficacy: 88.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short - Full Cutoff  
BUG Rating: B3 - U0 - G4

Input Watts (W): 382  
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

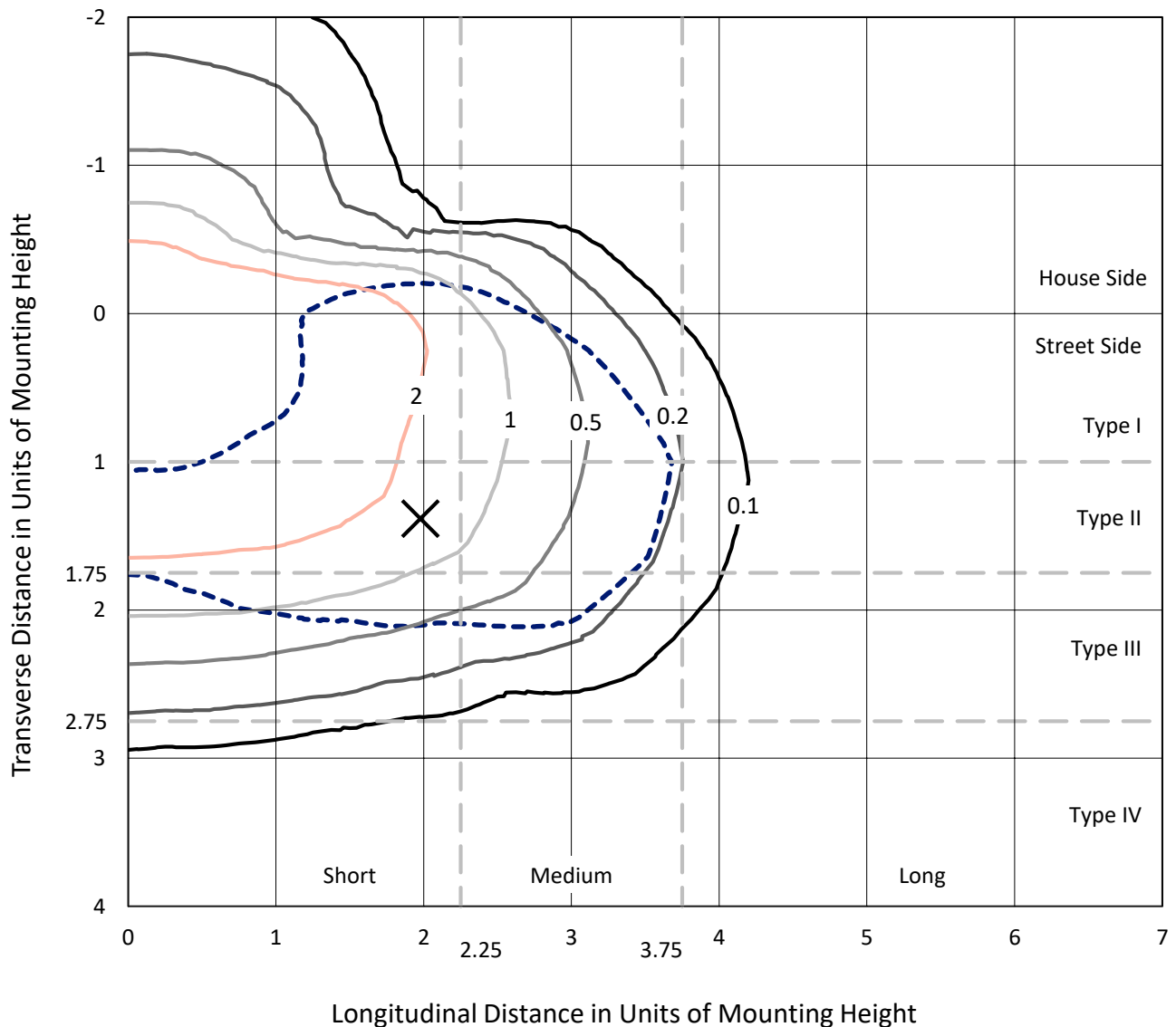


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### Iso-Footcandle Lines of Horizontal Illumination

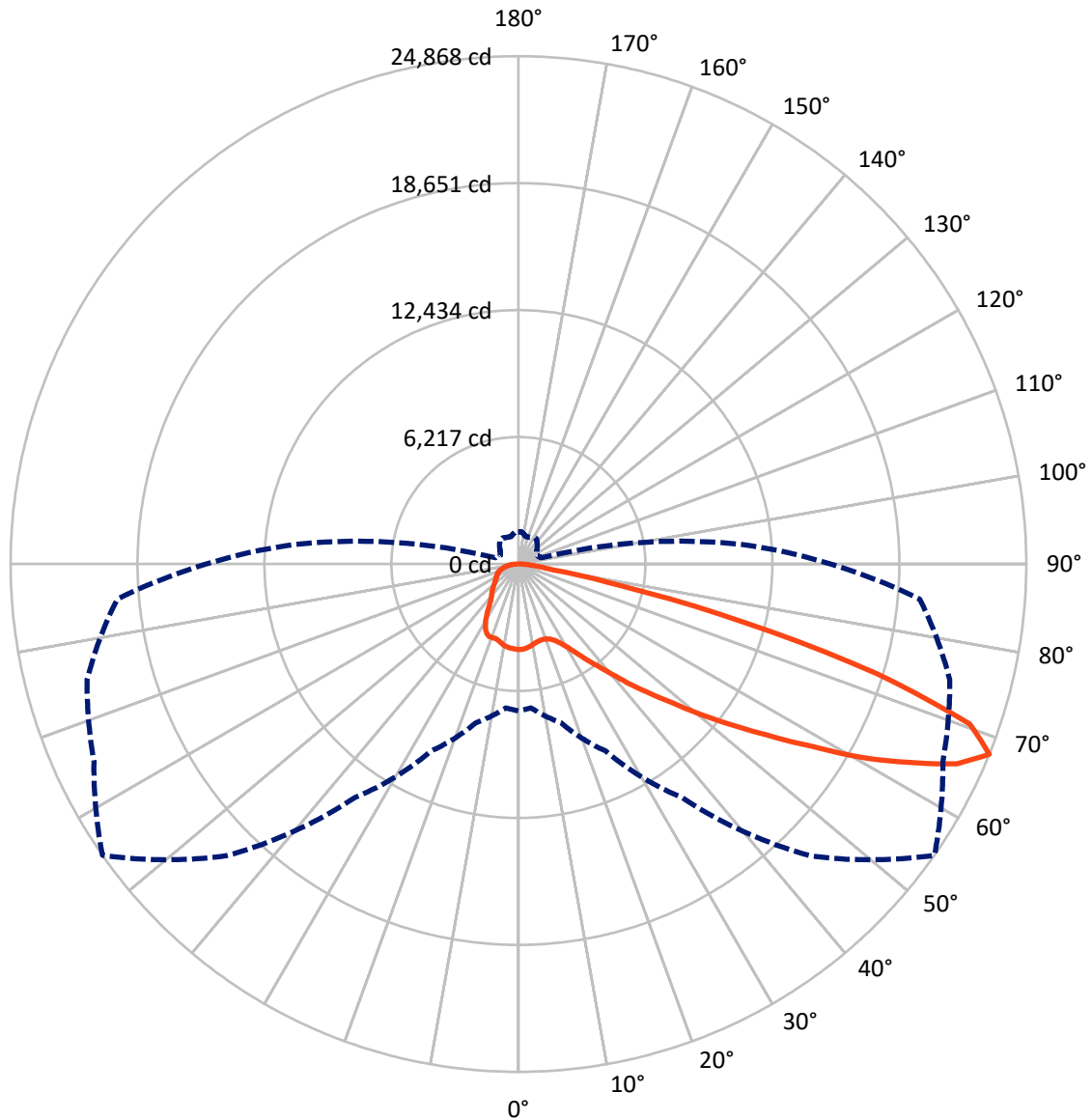
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.8 fc  
 Type III - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7331.3	0.0	7331.3
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	26606.4	0.0	26606.4
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	33937.7	0.0	33937.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	390.6	1.2
10°-20°	1106.3	3.3
20°-30°	1853.2	5.5
30°-40°	3047.4	9.0
40°-50°	5129.7	15.1
50°-60°	8073.8	23.8
60°-70°	9635.2	28.4
70°-80°	4137.5	12.2
80°-90°	564.1	1.7
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°	33937.7	100.0
0°-180°	33937.7	100.0



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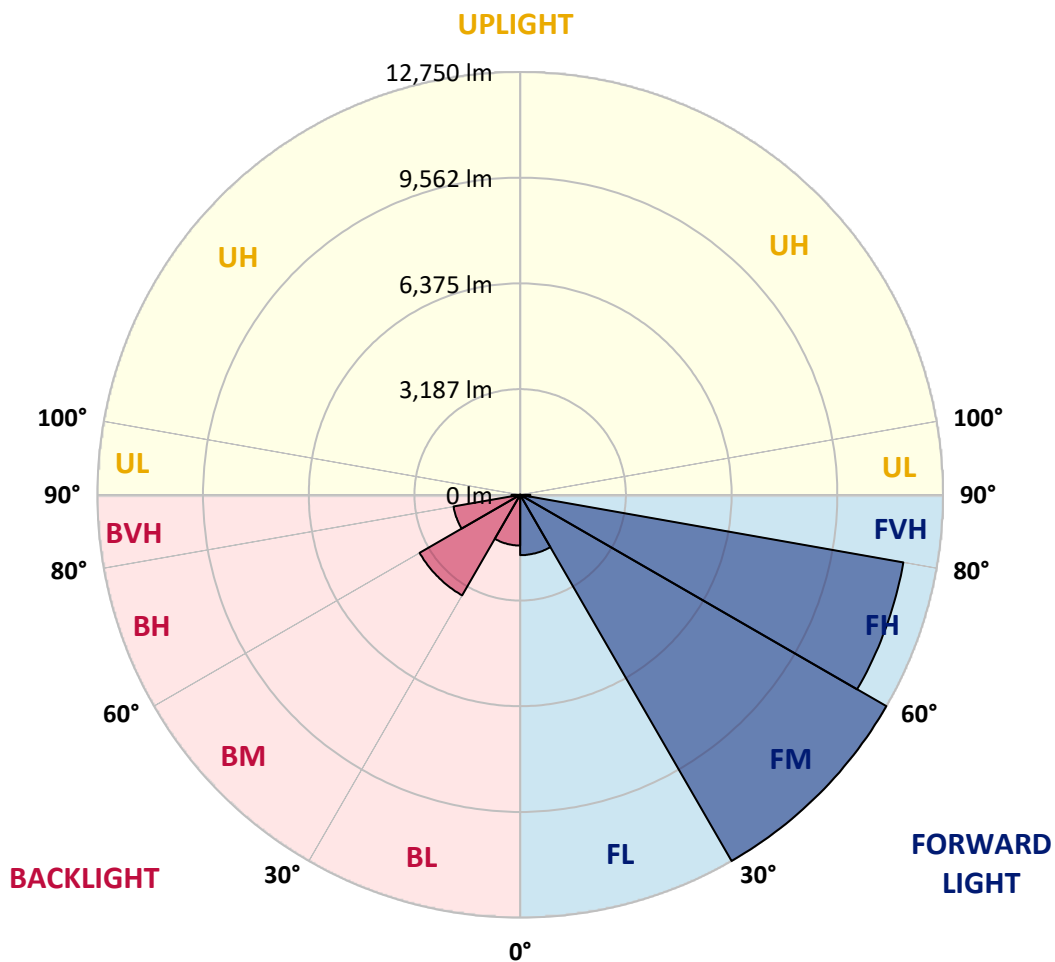
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1819.1	5.4			
FM	(30°-60°)	12749.5	37.6			
FH	(60°-80°)	11732.4	34.6			G4/12000
FVH	(80°-90°)	305.4	0.9			G3/500
BL	(0°-30°)	1530.9	4.5	B3/2500		
BM	(30°-60°)	3501.3	10.3	B3/5000		
BH	(60°-80°)	2040.3	6.0	B3/2500		G3/2500
BVH	(80°-90°)	258.8	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-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4184.8	4184.8	4184.8	4184.8	4184.8	4184.8	4184.8	4184.8	4184.8	4184.8	4184.8
2.5°	4148.8	4150.4	4153.8	4166.9	4178.3	4175.1	4176.7	4170.1	4168.4	4158.7	4168.4
5°	4096.5	4101.3	4102.9	4124.3	4137.4	4140.6	4135.6	4127.5	4117.7	4107.8	4112.8
7.5°	3976.6	3989.8	3991.4	4021.0	4042.3	4070.1	4071.7	4073.5	4068.6	4062.0	4071.7
10°	3901.2	3904.7	3903.0	3924.2	3940.7	3971.8	3989.8	4021.0	4034.1	4037.3	4043.9
12.5°	3896.4	3893.2	3888.3	3888.3	3883.3	3896.4	3929.1	3973.5	4004.6	4014.4	4022.6
15°	3948.8	3947.2	3930.9	3906.2	3875.1	3865.2	3893.2	3942.3	3983.3	4004.6	4012.8
17.5°	4066.8	4057.0	4030.9	3975.1	3907.8	3881.7	3884.9	3926.0	3973.5	4001.3	4009.4
20°	4283.3	4283.3	4227.6	4122.6	4002.9	3940.7	3911.1	3935.7	3981.6	4019.3	4030.9
22.5°	4657.0	4660.2	4566.9	4394.7	4193.1	4060.2	3986.6	3981.6	4035.7	4078.3	4091.4
25°	5186.5	5173.2	5042.1	4796.3	4489.8	4270.2	4142.3	4112.8	4158.7	4206.3	4222.7
27.5°	5802.8	5755.3	5599.6	5302.9	4906.2	4584.9	4388.1	4340.6	4384.8	4439.0	4455.4
30°	6412.6	6363.4	6178.2	5853.5	5412.6	5006.2	4724.1	4647.1	4709.5	4786.4	4796.3
32.5°	7022.3	7022.3	6815.8	6437.2	5956.9	5509.3	5171.7	5079.8	5183.2	5276.6	5297.9
35°	7751.8	7755.1	7555.0	7099.3	6583.0	6109.4	5737.2	5670.0	5825.7	5891.4	5942.1
37.5°	8648.4	8666.5	8409.2	7858.4	7292.8	6794.5	6351.9	6260.1	6415.9	6594.5	6758.5
40°	9617.3	9640.2	9356.6	8677.9	8112.5	7591.1	7112.5	6947.0	7205.9	7546.9	7758.3
42.5°	10541.7	10659.7	10386.1	9687.7	9079.6	8540.2	8055.0	7814.0	8138.6	8653.4	8836.9
45°	11877.7	11962.9	11485.9	10853.1	10281.1	9677.9	9035.3	8781.2	9235.3	9884.4	9922.0
47.5°	12767.8	12703.8	12461.2	12067.8	11705.5	11141.7	10174.6	9895.9	10499.1	11262.9	11051.5
50°	13241.5	13261.1	13228.4	13251.3	13264.5	12910.4	11571.2	11189.2	11908.8	12831.7	12344.9
52.5°	13684.2	13552.9	13661.2	14198.8	14847.8	14716.8	13090.7	12692.3	13420.1	14572.6	13711.9
55°	13674.2	13474.2	13826.7	14775.9	16183.9	16334.7	14797.2	14338.0	15018.4	16439.5	15161.0
57.5°	13190.6	13200.6	13743.1	14985.5	17114.9	17855.8	16777.3	16088.7	16713.3	18331.3	16483.8
60°	12525.2	12615.3	13397.2	14951.2	17860.8	19103.3	19206.5	17975.5	18373.8	20050.7	17578.8
62.5°	11451.5	11546.5	12625.1	14593.9	17747.6	20304.7	21403.0	20116.4	20109.7	21093.2	17900.0
65°	9758.2	9730.4	10863.1	13257.8	16798.6	21193.3	23584.8	21967.0	21417.7	21109.7	17254.3
67.5°	7196.1	7071.5	8043.6	10097.5	13962.7	20198.3	24868.4	22930.9	21863.7	19721.2	15280.7
70°	3734.2	3609.5	4396.3	5896.2	9182.8	15764.3	23447.2	22432.5	20878.5	16531.4	11971.2
72.5°	1596.6	1575.3	1895.0	2586.7	4442.3	9092.6	18385.3	19416.3	17914.9	12317.0	8230.5
75°	1073.7	1067.1	1186.8	1409.7	1998.2	3689.9	11505.6	13782.4	13107.1	7637.0	4629.1
77.5°	842.5	834.3	904.9	1013.0	1294.9	1455.7	5106.1	7399.3	6848.6	3324.3	2026.0
80°	658.9	652.3	696.6	755.7	931.1	918.0	1680.2	2944.0	2278.6	1273.6	985.1
82.5°	519.6	519.6	555.7	557.3	660.7	626.2	876.9	1296.7	1137.7	742.5	603.2
85°	475.4	475.4	513.1	416.4	431.0	395.1	544.3	768.8	721.2	304.9	262.2
87.5°	239.3	232.8	431.0	368.8	234.4	209.8	265.5	372.1	399.9	168.8	131.2
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°	4184.8	4184.8	4184.8	4184.8	4184.8	4184.8	4184.8	4184.8	4184.8	4184.8
2.5°	4165.3	4163.6	4166.9	4168.4	4181.6	4199.7	4207.8	4219.2	4225.8	4222.7
5°	4116.0	4119.3	4132.5	4142.3	4165.3	4194.7	4211.2	4224.2	4235.7	4230.7
7.5°	4075.0	4083.2	4102.9	4111.2	4124.3	4132.5	4130.8	4135.6	4145.6	4134.1
10°	4052.2	4062.0	4076.7	4065.2	4034.1	3989.8	3948.8	3927.5	3934.0	3926.0
12.5°	4029.2	4042.3	4030.9	3976.6	3889.8	3832.4	3801.3	3804.6	3819.4	3822.6
15°	4016.1	4021.0	3971.8	3870.2	3781.7	3773.4	3789.8	3786.5	3788.2	3788.2
17.5°	4016.1	4002.9	3911.1	3809.5	3771.9	3757.0	3706.2	3642.3	3614.4	3604.5
20°	4037.3	4002.9	3891.5	3824.3	3742.2	3616.0	3481.7	3363.7	3311.2	3296.4
22.5°	4101.3	4042.3	3947.2	3830.8	3598.0	3386.6	3173.5	3032.5	2937.5	2921.1
25°	4230.7	4165.3	4057.0	3744.0	3368.6	3067.0	2824.4	2667.0	2571.8	2558.8
27.5°	4457.0	4414.5	4116.0	3552.2	3063.7	2740.8	2516.2	2394.9	2324.4	2319.5
30°	4797.9	4776.6	4086.5	3268.6	2688.3	2424.3	2316.2	2245.8	2193.2	2191.7
32.5°	5342.2	5170.0	3989.8	2922.6	2345.7	2199.8	2155.6	2113.0	2071.9	2071.9
35°	6042.1	5488.0	3806.2	2552.3	2137.5	2075.3	2019.5	1952.2	1898.2	1895.0
37.5°	6864.9	5684.7	3476.7	2253.8	2039.2	1991.6	1909.6	1809.6	1714.7	1698.2
40°	7696.0	5743.8	3012.8	2070.4	1976.9	1908.0	1808.1	1690.0	1598.3	1593.4
42.5°	8458.4	5630.7	2521.2	1944.1	1914.6	1822.8	1717.9	1612.9	1540.9	1539.2
45°	9097.6	5337.2	2108.1	1824.5	1849.0	1745.8	1652.3	1567.1	1511.4	1499.9
47.5°	9699.2	4922.5	1817.9	1698.2	1783.5	1703.1	1624.5	1544.1	1490.0	1481.8
50°	10397.4	4475.0	1614.7	1575.3	1726.1	1688.4	1647.4	1563.8	1473.6	1463.8
52.5°	11243.2	4088.1	1455.7	1467.1	1681.8	1708.0	1706.4	1619.6	1462.3	1449.1
55°	12187.5	3658.6	1336.0	1378.5	1663.8	1744.1	1721.2	1671.9	1472.1	1452.3
57.5°	13117.0	3157.2	1252.3	1311.3	1637.6	1740.8	1650.6	1580.2	1495.0	1467.1
60°	13813.5	2483.4	1188.4	1252.3	1580.2	1686.7	1573.7	1480.1	1490.0	1468.6
62.5°	13859.5	1919.5	1111.4	1201.6	1493.3	1632.7	1522.8	1435.9	1511.4	1491.6
65°	13044.7	1450.8	1037.6	1140.8	1399.9	1598.3	1473.6	1411.3	1555.7	1534.2
67.5°	10982.7	1167.1	975.3	1078.5	1306.5	1526.1	1429.5	1388.4	1594.9	1557.2
70°	7928.8	995.1	914.7	1003.1	1222.9	1444.1	1390.0	1347.4	1488.4	1429.5
72.5°	4881.6	862.3	845.8	903.2	1159.0	1358.9	1331.0	1270.5	1340.9	1293.3
75°	2437.6	747.5	768.8	804.8	1068.8	1262.2	1232.7	1172.0	1181.9	1172.0
77.5°	1167.1	639.4	678.6	706.4	952.4	1152.3	1121.3	1058.9	1047.5	1049.1
80°	739.2	534.4	572.1	591.8	850.8	1024.4	993.3	931.1	1062.2	985.1
82.5°	462.3	434.4	444.2	480.2	740.9	891.7	850.8	795.0	957.4	757.4
85°	255.7	303.3	316.4	347.6	570.5	745.9	704.9	634.4	568.7	558.9
87.5°	152.4	180.3	185.2	208.1	383.5	539.3	477.0	452.4	375.4	373.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)