

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: P191463

Luminaire Tested: **GLEON-AF-05-LED-E1-T3-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191463  
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-05-LED-E1-T3-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33391.2 lumens  
Efficiency: N/A  
Efficacy: 104.3 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): 320  
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

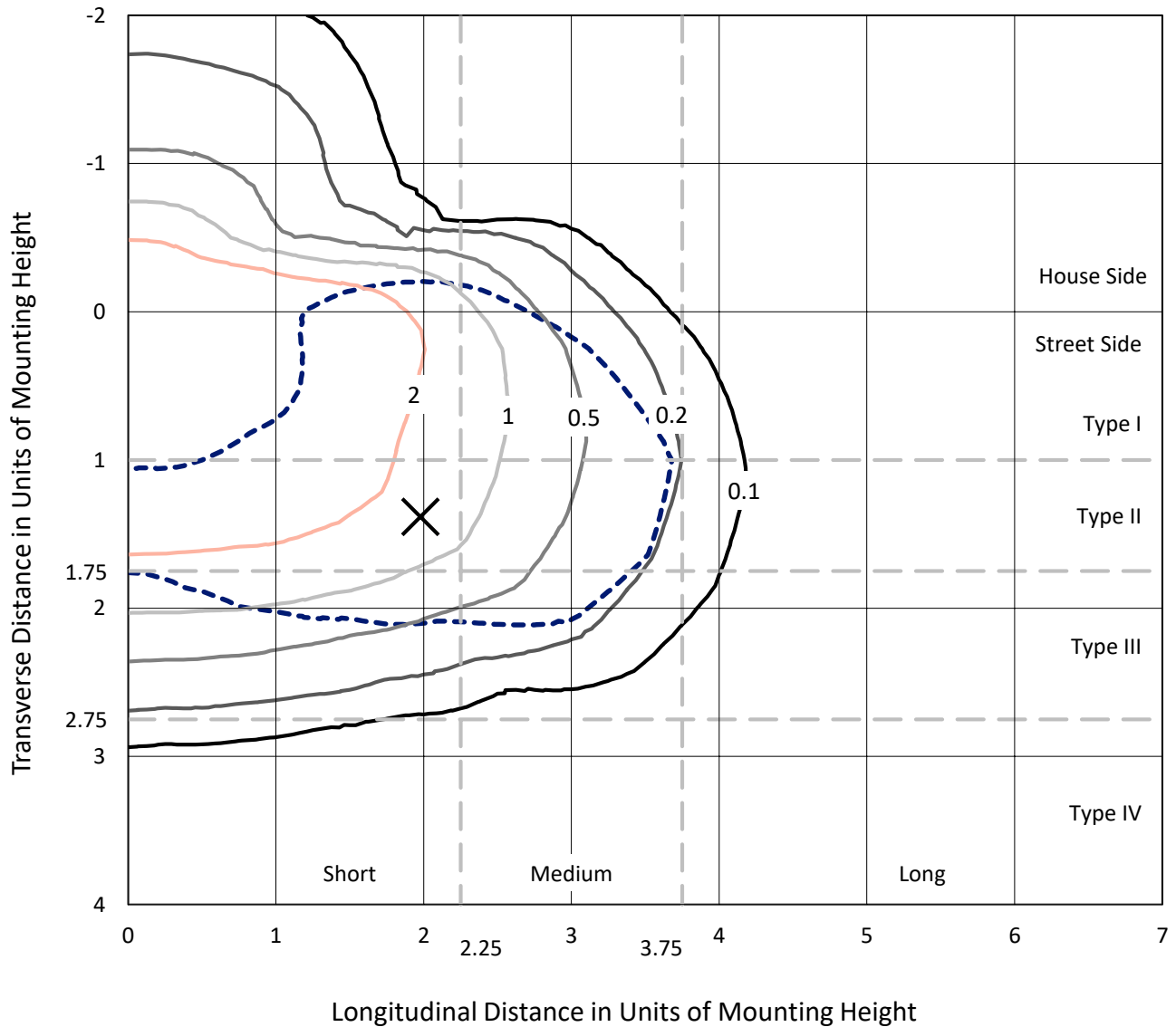


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

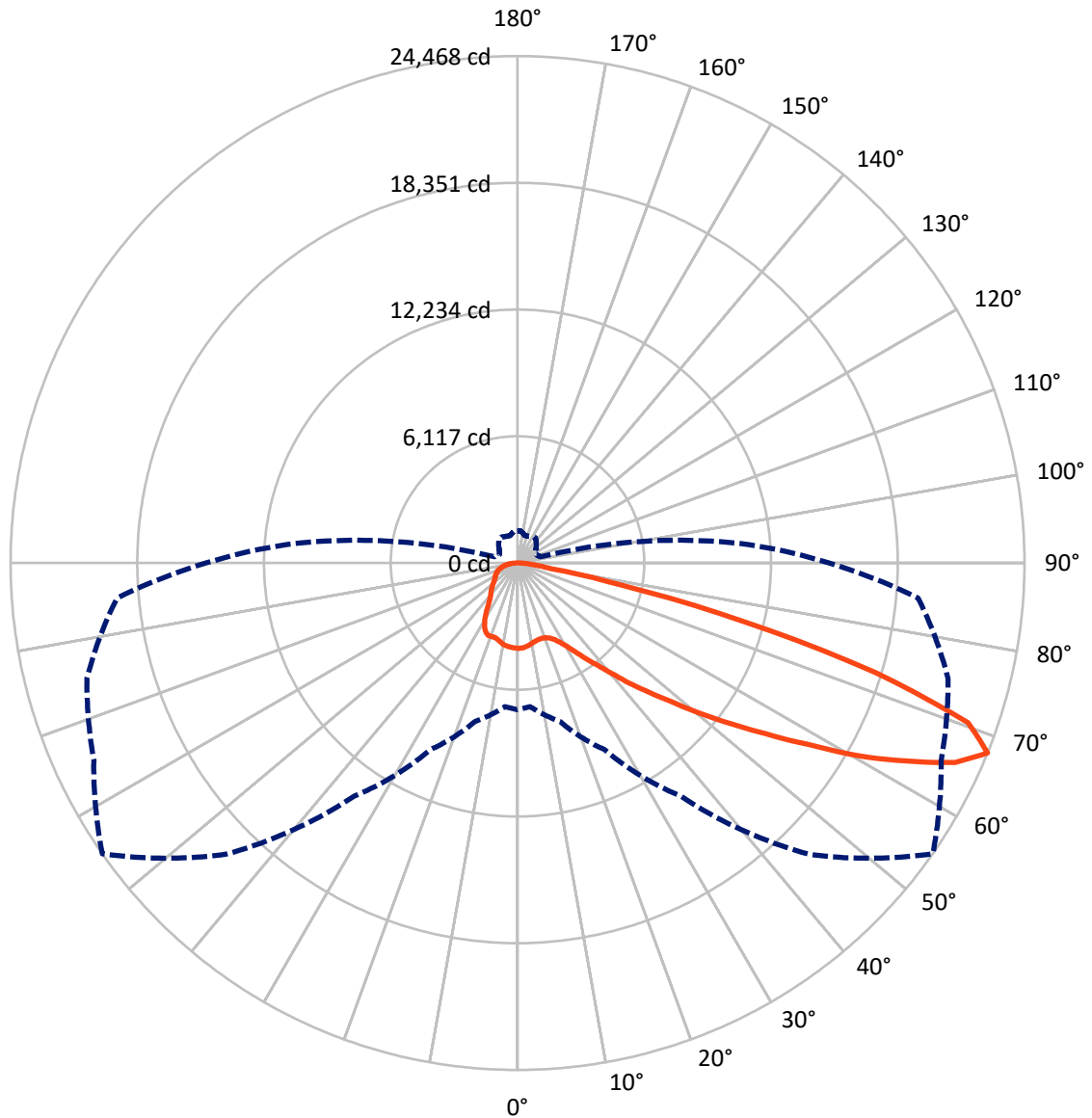


Based on 30 foot mounting height. Maximum calculated value = 4.7 fc  
 Type III - Short - Full Cutoff

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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	7213.2	0.0	7213.2
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	26178.0	0.0	26178.0
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	33391.2	0.0	33391.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	384.3	1.2
10°-20°	1088.5	3.3
20°-30°	1823.3	5.5
30°-40°	2998.3	9.0
40°-50°	5047.1	15.1
50°-60°	7943.7	23.8
60°-70°	9480.0	28.4
70°-80°	4070.9	12.2
80°-90°	555.0	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°	33391.2	100.0
0°-180°	33391.2	100.0



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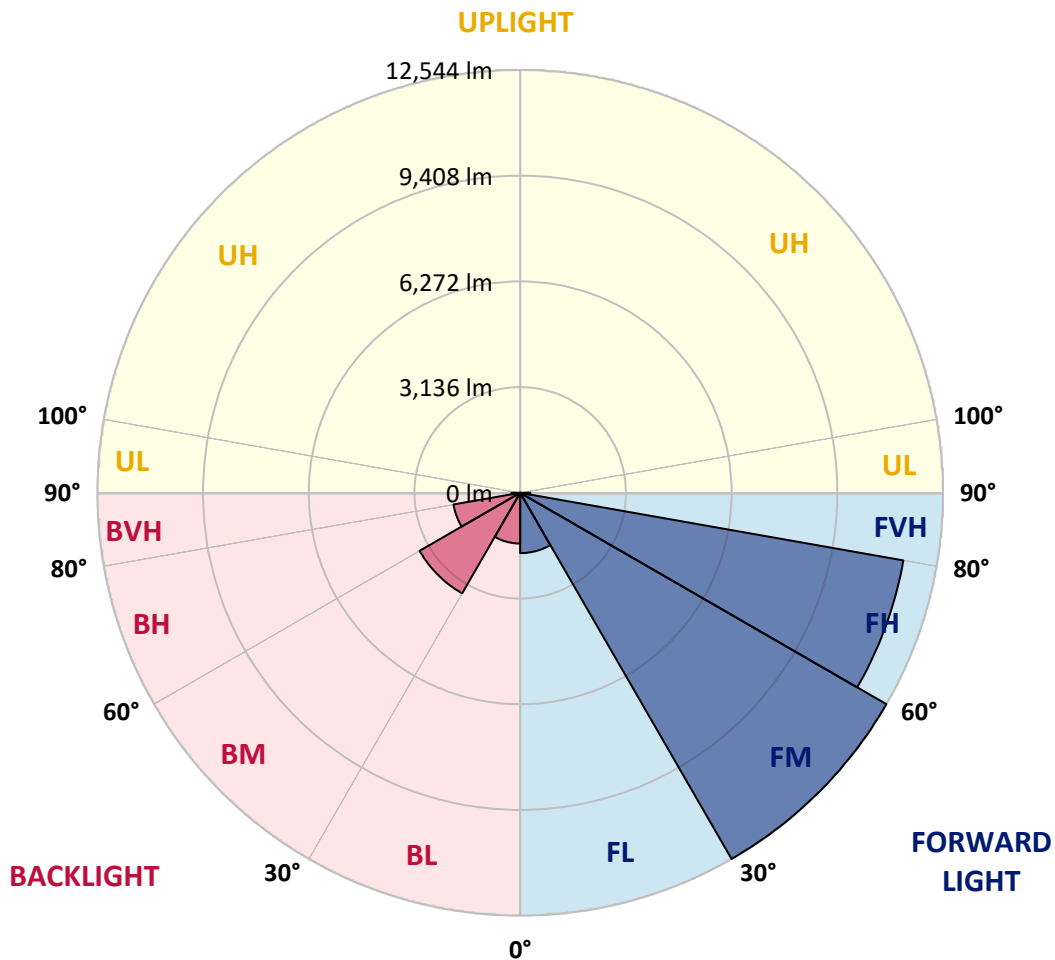
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1789.8	5.4			
FM	(30°-60°)	12544.2	37.6			
FH	(60°-80°)	11543.5	34.6			G4/12000
FVH	(80°-90°)	300.4	0.9			G3/500
BL	(0°-30°)	1506.3	4.5	B3/2500		
BM	(30°-60°)	3445.0	10.3	B3/5000		
BH	(60°-80°)	2007.4	6.0	B3/2500		G3/2500
BVH	(80°-90°)	254.6	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°	4117.5	4117.5	4117.5	4117.5	4117.5	4117.5	4117.5	4117.5	4117.5	4117.5	4117.5
2.5°	4082.0	4083.6	4086.9	4099.8	4111.0	4107.9	4109.4	4103.0	4101.3	4091.7	4101.3
5°	4030.4	4035.2	4036.9	4057.8	4070.7	4073.9	4069.1	4061.0	4051.4	4041.7	4046.5
7.5°	3912.7	3925.6	3927.2	3956.3	3977.1	4004.6	4006.2	4007.8	4003.0	3996.6	4006.2
10°	3838.5	3841.7	3840.1	3861.0	3877.2	3907.9	3925.6	3956.3	3969.2	3972.3	3978.8
12.5°	3833.6	3830.4	3825.5	3825.5	3820.7	3833.6	3865.9	3909.4	3940.1	3949.7	3957.8
15°	3885.3	3883.6	3867.5	3843.3	3812.6	3803.0	3830.4	3878.8	3919.1	3940.1	3948.2
17.5°	4001.4	3991.7	3965.9	3911.0	3845.0	3819.1	3822.4	3862.7	3909.4	3936.8	3944.9
20°	4214.3	4214.3	4159.4	4056.2	3938.5	3877.2	3848.1	3872.4	3917.5	3954.6	3965.9
22.5°	4582.0	4585.2	4493.3	4323.9	4125.6	3994.9	3922.3	3917.5	3970.7	4012.6	4025.5
25°	5102.9	5090.0	4961.0	4719.1	4417.5	4201.4	4075.5	4046.5	4091.7	4138.4	4154.6
27.5°	5709.3	5662.5	5509.3	5217.5	4827.1	4511.0	4317.5	4270.7	4314.3	4367.5	4383.7
30°	6309.3	6260.9	6078.7	5759.3	5325.5	4925.5	4648.1	4572.3	4633.6	4709.4	4719.1
32.5°	6909.2	6909.2	6706.1	6333.5	5860.9	5420.6	5088.4	4998.1	5099.7	5191.6	5212.5
35°	7626.9	7630.2	7433.4	6985.0	6477.0	6011.0	5644.8	5578.7	5731.9	5796.4	5846.5
37.5°	8509.2	8526.9	8273.7	7731.8	7175.4	6685.1	6249.6	6159.3	6312.5	6488.3	6649.6
40°	9462.3	9484.9	9205.9	8538.2	7981.8	7468.9	6998.0	6835.1	7089.9	7425.4	7633.5
42.5°	10372.0	10488.1	10218.8	9531.7	8933.3	8402.7	7925.3	7688.3	8007.6	8514.0	8694.7
45°	11686.4	11770.3	11300.9	10678.4	10115.6	9522.0	8889.7	8639.8	9086.6	9725.2	9762.3
47.5°	12562.1	12499.2	12260.6	11873.5	11517.1	10962.2	10010.7	9736.5	10330.1	11081.6	10873.6
50°	13028.2	13047.6	13015.3	13037.9	13050.8	12702.5	11384.8	11009.0	11717.1	12625.1	12146.0
52.5°	13463.7	13334.7	13441.2	13970.1	14608.8	14479.8	12879.9	12488.0	13204.0	14337.9	13491.1
55°	13454.1	13257.2	13604.0	14537.9	15923.3	16071.6	14558.8	14107.2	14776.5	16174.8	14916.9
57.5°	12978.3	12987.9	13521.8	14744.3	16839.3	17568.3	16507.1	15829.7	16444.1	18036.1	16218.4
60°	12323.5	12412.2	13181.4	14710.4	17573.2	18795.6	18897.3	17686.0	18078.0	19727.8	17295.7
62.5°	11267.1	11360.6	12421.8	14358.9	17461.9	19977.8	21058.4	19792.4	19785.9	20753.6	17611.8
65°	9601.0	9573.6	10688.1	13044.4	16528.0	20851.9	23205.0	21613.2	21072.9	20769.7	16976.4
67.5°	7080.3	6957.6	7914.1	9934.9	13737.9	19873.0	24467.9	22561.6	21511.6	19403.6	15034.6
70°	3673.9	3551.4	4325.5	5801.3	9034.9	15510.4	23069.6	22071.3	20542.3	16265.1	11778.4
72.5°	1570.8	1549.9	1864.4	2545.0	4370.7	8946.2	18089.2	19103.7	17626.4	12118.6	8097.9
75°	1056.4	1050.0	1167.7	1387.0	1966.0	3630.5	11320.3	13560.4	12896.0	7514.1	4554.6
77.5°	829.0	820.9	890.3	996.8	1274.1	1432.1	5023.9	7280.2	6738.3	3270.8	1993.4
80°	648.3	641.9	685.5	743.5	916.1	903.2	1653.1	2896.6	2241.8	1253.1	969.2
82.5°	511.3	511.3	546.8	548.4	650.0	616.1	862.9	1275.7	1119.3	730.6	593.5
85°	467.7	467.7	504.8	409.7	424.2	388.7	535.4	756.4	709.6	300.0	258.1
87.5°	235.5	229.0	424.2	362.8	230.7	206.4	261.3	366.1	393.5	166.1	129.0
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°	4117.5	4117.5	4117.5	4117.5	4117.5	4117.5	4117.5	4117.5	4117.5	4117.5
2.5°	4098.1	4096.5	4099.8	4101.3	4114.3	4132.0	4140.1	4151.3	4157.8	4154.6
5°	4049.8	4053.0	4065.9	4075.5	4098.1	4127.2	4143.3	4156.2	4167.5	4162.7
7.5°	4009.5	4017.5	4036.9	4045.0	4057.8	4065.9	4064.3	4069.1	4078.8	4067.5
10°	3986.8	3996.6	4011.1	3999.7	3969.2	3925.6	3885.3	3864.3	3870.7	3862.7
12.5°	3964.2	3977.1	3965.9	3912.7	3827.2	3770.7	3740.1	3743.3	3757.8	3761.1
15°	3951.4	3956.3	3907.9	3807.8	3720.8	3712.7	3728.8	3725.6	3727.2	3727.2
17.5°	3951.4	3938.5	3848.1	3748.2	3711.1	3696.5	3646.5	3583.7	3556.3	3546.6
20°	3972.3	3938.5	3828.8	3762.7	3682.0	3557.8	3425.6	3309.5	3257.9	3243.4
22.5°	4035.2	3977.1	3883.6	3769.2	3540.1	3332.1	3122.4	2983.7	2890.1	2874.0
25°	4162.7	4098.1	3991.7	3683.6	3314.4	3017.6	2778.8	2624.1	2530.5	2517.6
27.5°	4385.2	4343.2	4049.8	3494.9	3014.3	2696.6	2475.6	2356.3	2286.9	2282.1
30°	4720.7	4699.7	4020.7	3216.0	2645.0	2385.3	2278.9	2209.6	2157.9	2156.3
32.5°	5256.1	5086.8	3925.6	2875.6	2307.9	2164.4	2120.9	2078.9	2038.5	2038.5
35°	5944.8	5399.6	3744.9	2511.1	2103.1	2041.8	1987.0	1920.9	1867.6	1864.4
37.5°	6754.4	5593.2	3420.7	2217.7	2006.3	1959.6	1879.0	1780.5	1686.9	1670.9
40°	7572.1	5651.3	2964.3	2037.0	1945.0	1877.3	1778.9	1662.8	1572.5	1567.7
42.5°	8322.1	5540.0	2480.5	1912.8	1883.8	1793.4	1690.2	1587.0	1516.0	1514.4
45°	8951.1	5251.3	2074.0	1795.1	1819.2	1717.6	1625.7	1541.9	1487.0	1475.7
47.5°	9543.0	4843.3	1788.6	1670.9	1754.8	1675.7	1598.3	1519.3	1466.0	1458.0
50°	10230.0	4403.0	1588.6	1549.9	1698.3	1661.2	1620.9	1538.6	1449.9	1440.2
52.5°	11062.2	4022.3	1432.1	1443.5	1654.7	1680.5	1679.0	1593.5	1438.6	1425.7
55°	11991.2	3599.8	1314.4	1356.3	1637.0	1716.0	1693.5	1645.1	1448.3	1429.0
57.5°	12905.6	3106.3	1232.1	1290.2	1611.1	1712.8	1624.1	1554.8	1470.9	1443.5
60°	13591.1	2443.4	1169.3	1232.1	1554.8	1659.5	1548.3	1456.4	1466.0	1445.1
62.5°	13636.2	1888.6	1093.4	1182.2	1469.3	1606.3	1498.3	1412.8	1487.0	1467.6
65°	12834.8	1427.3	1020.9	1122.5	1377.3	1572.5	1449.9	1388.7	1530.5	1509.6
67.5°	10805.8	1148.4	959.6	1061.2	1285.4	1501.5	1406.4	1366.0	1569.3	1532.2
70°	7801.1	979.0	900.0	987.0	1203.2	1420.9	1367.7	1325.7	1464.5	1406.4
72.5°	4803.0	848.3	832.2	888.6	1140.3	1337.0	1309.6	1249.9	1319.3	1272.6
75°	2398.2	735.4	756.4	791.9	1051.6	1241.9	1212.8	1153.2	1162.8	1153.2
77.5°	1148.4	629.0	667.7	695.1	937.0	1133.8	1103.2	1041.9	1030.6	1032.2
80°	727.4	525.8	562.8	582.3	837.1	1008.0	977.3	916.1	1045.1	969.2
82.5°	454.8	427.4	437.1	472.6	729.0	877.4	837.1	782.3	941.8	745.1
85°	251.6	298.4	311.3	341.9	561.3	733.9	693.5	624.2	559.7	549.9
87.5°	150.0	177.4	182.3	204.8	377.4	530.6	469.3	445.1	369.3	367.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)