

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: P269587

Luminaire Tested: **GLEON-AF-08-LED-E1-T3-7027-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269587  
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-08-LED-E1-T3-7027-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33493.1 lumens  
Efficiency: N/A  
Efficacy: 100.3 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Short - Full Cutoff  
BUG Rating: B3 - U0 - G4

Input Watts (W): 334  
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

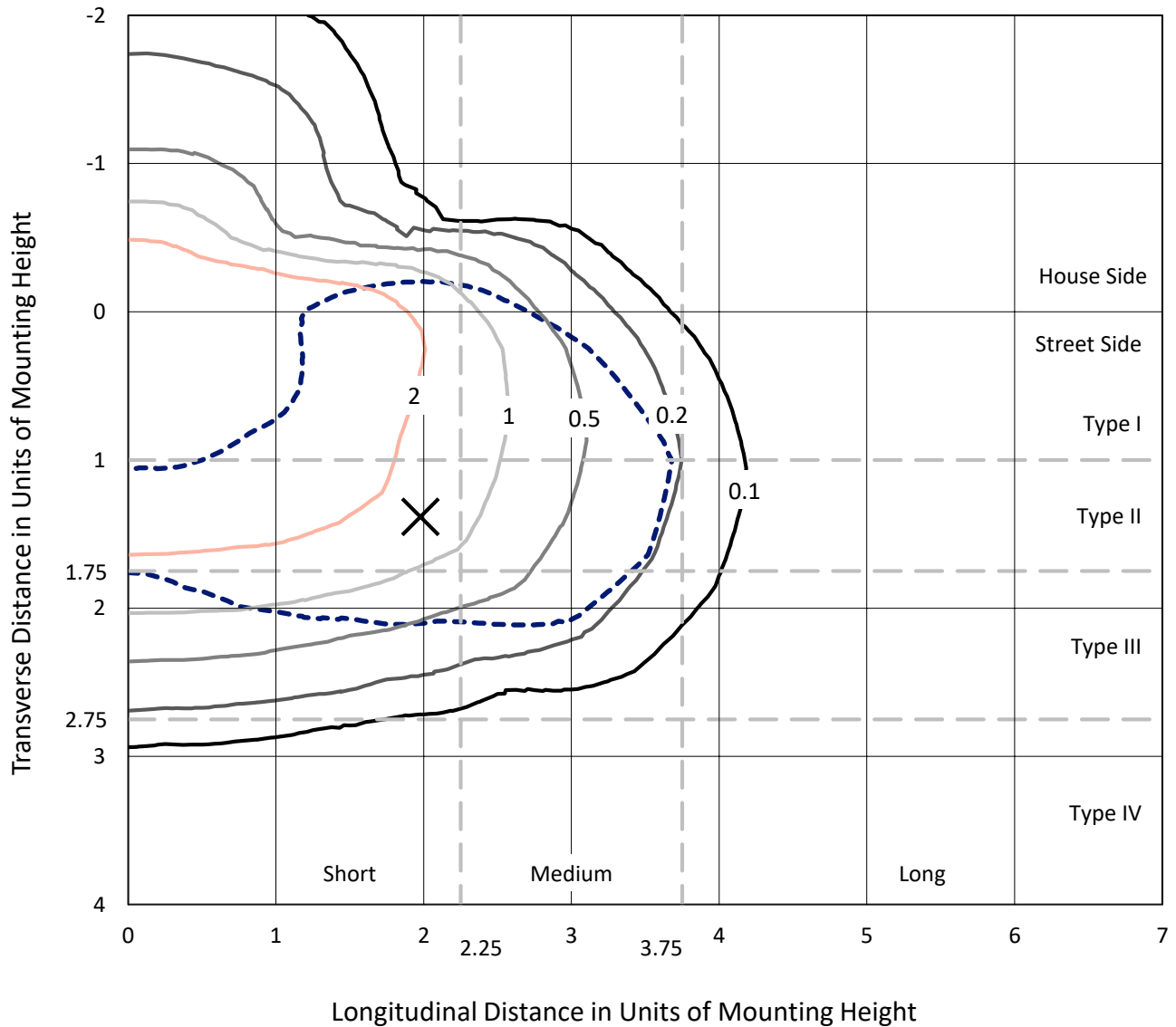


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### Iso-Footcandle Lines of Horizontal Illumination

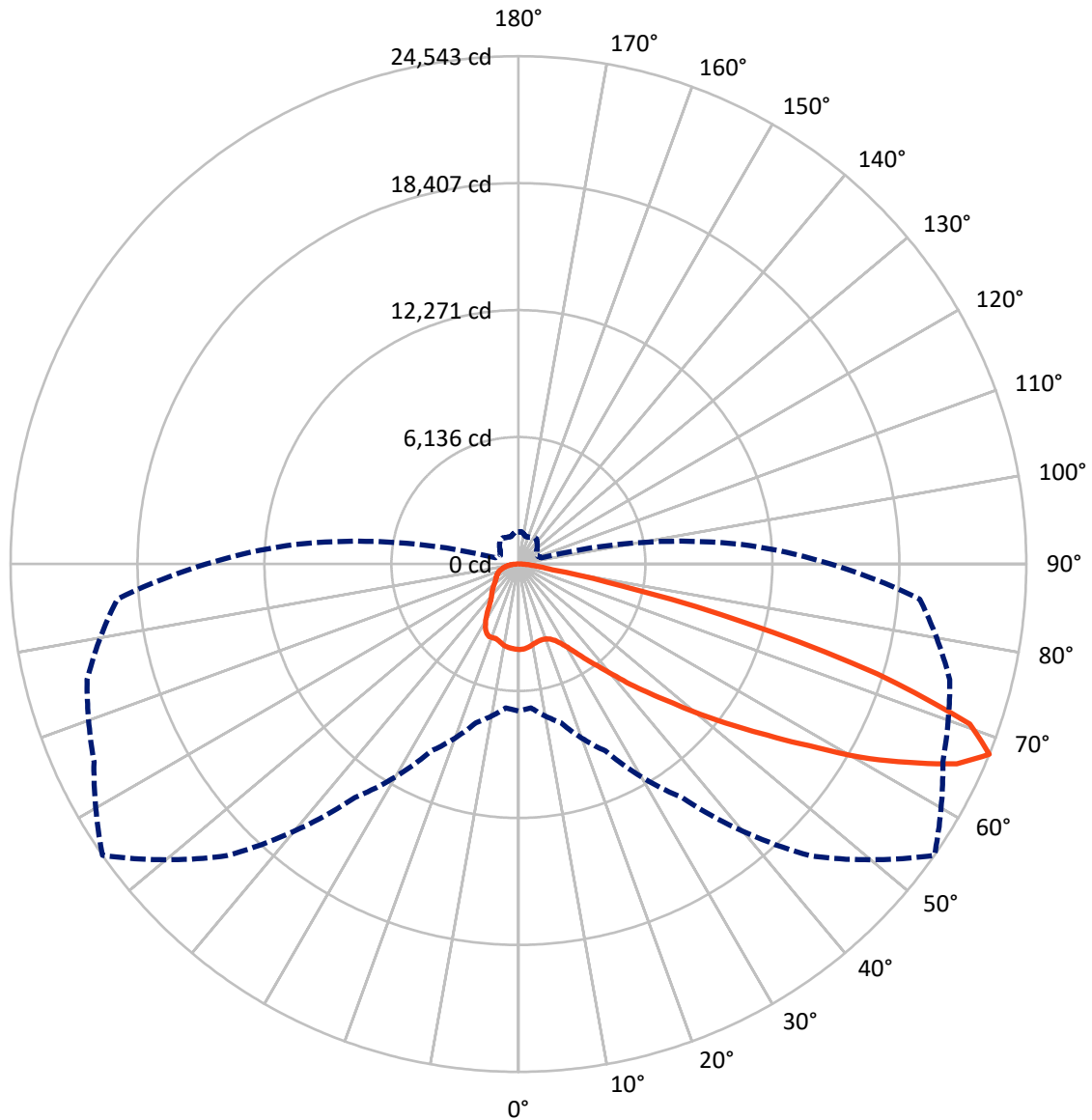
× Max cd  
 - - - 1/2 Max cd



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	7235.2	0.0	7235.2
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	26257.8	0.0	26257.8
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	33493.1	0.0	33493.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	385.5	1.2
10°-20°	1091.8	3.3
20°-30°	1828.9	5.5
30°-40°	3007.5	9.0
40°-50°	5062.5	15.1
50°-60°	7968.0	23.8
60°-70°	9508.9	28.4
70°-80°	4083.3	12.2
80°-90°	556.7	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°	33493.1	100.0
0°-180°	33493.1	100.0



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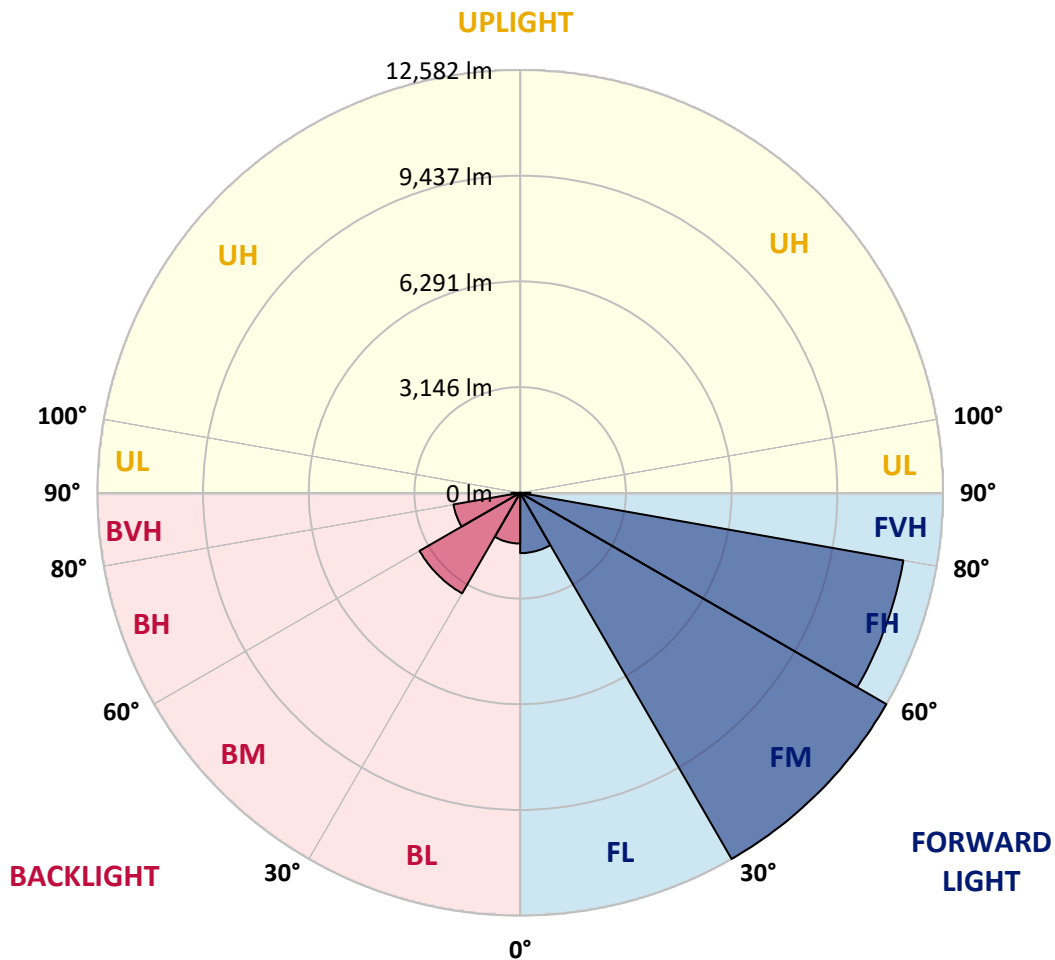
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1795.3	5.4			
FM	(30°-60°)	12582.5	37.6			
FH	(60°-80°)	11578.7	34.6			G4/12000
FVH	(80°-90°)	301.4	0.9			G3/500
BL	(0°-30°)	1510.8	4.5	B3/2500		
BM	(30°-60°)	3455.5	10.3	B3/5000		
BH	(60°-80°)	2013.5	6.0	B3/2500		G3/2500
BVH	(80°-90°)	255.4	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-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4130.0	4130.0	4130.0	4130.0	4130.0	4130.0	4130.0	4130.0	4130.0	4130.0	4130.0
2.5°	4094.5	4096.1	4099.3	4112.4	4123.6	4120.3	4122.0	4115.6	4113.9	4104.1	4113.9
5°	4042.7	4047.6	4049.2	4070.2	4083.2	4086.4	4081.4	4073.5	4063.8	4054.1	4058.9
7.5°	3924.6	3937.5	3939.2	3968.4	3989.4	4016.9	4018.5	4020.1	4015.2	4008.7	4018.5
10°	3850.1	3853.4	3851.8	3872.9	3889.0	3919.8	3937.5	3968.4	3981.2	3984.4	3990.9
12.5°	3845.4	3842.1	3837.3	3837.3	3832.3	3845.4	3877.8	3921.5	3952.2	3961.9	3969.9
15°	3897.0	3895.5	3879.3	3855.0	3824.4	3814.7	3842.1	3890.6	3931.2	3952.2	3960.2
17.5°	4013.5	4003.8	3978.0	3923.0	3856.7	3830.8	3834.1	3874.5	3921.5	3948.9	3956.9
20°	4227.2	4227.2	4172.1	4068.7	3950.4	3889.0	3859.8	3884.2	3929.5	3966.6	3978.0
22.5°	4596.0	4599.2	4506.9	4337.1	4138.1	4007.1	3934.2	3929.5	3982.8	4024.9	4037.8
25°	5118.5	5105.5	4976.2	4733.4	4431.0	4214.2	4087.9	4058.9	4104.1	4151.1	4167.2
27.5°	5726.8	5679.9	5526.2	5233.3	4841.9	4524.9	4330.6	4283.7	4327.4	4380.9	4396.9
30°	6328.6	6280.1	6097.2	5776.9	5341.7	4940.6	4662.4	4586.2	4647.7	4723.7	4733.4
32.5°	6930.3	6930.3	6726.5	6352.9	5878.8	5437.3	5103.9	5013.4	5115.3	5207.5	5228.4
35°	7650.2	7653.5	7456.1	7006.4	6496.8	6029.2	5662.0	5595.7	5749.4	5814.1	5864.2
37.5°	8535.2	8552.9	8298.9	7755.3	7197.3	6705.5	6268.7	6178.2	6331.9	6508.1	6669.8
40°	9491.2	9513.9	9233.9	8564.3	8006.1	7491.8	7019.4	6856.0	7111.5	7447.9	7656.8
42.5°	10403.6	10520.1	10249.9	9560.8	8960.7	8428.3	7949.6	7711.7	8032.0	8539.9	8721.1
45°	11722.1	11806.2	11335.4	10711.0	10146.4	9551.0	8916.9	8666.2	9114.3	9755.0	9792.2
47.5°	12600.4	12537.4	12297.9	11909.6	11552.3	10995.8	10041.3	9766.3	10361.5	11115.4	10906.7
50°	13068.1	13087.4	13055.1	13077.7	13090.6	12741.2	11419.6	11042.7	11752.7	12663.5	12183.2
52.5°	13504.8	13375.4	13482.1	14012.8	14653.4	14523.9	12919.2	12526.1	13244.3	14381.7	13532.2
55°	13495.1	13297.7	13645.6	14582.1	15971.9	16120.7	14603.2	14150.3	14821.7	16224.2	14962.3
57.5°	13017.9	13027.6	13563.0	14789.2	16890.7	17622.0	16557.5	15878.0	16494.4	18091.1	16267.9
60°	12361.0	12450.0	13221.8	14755.3	17626.7	18853.0	18955.0	17740.0	18133.0	19788.0	17348.4
62.5°	11301.4	11395.3	12459.8	14402.6	17515.2	20038.9	21122.7	19852.7	19846.3	20817.0	17665.6
65°	9630.3	9602.8	10720.7	13084.3	16578.5	20915.5	23275.9	21679.2	21137.2	20833.1	17028.2
67.5°	7101.8	6978.9	7938.2	9965.2	13779.8	19933.7	24542.6	22630.5	21577.3	19462.9	15080.4
70°	3685.1	3562.1	4338.8	5819.0	9062.6	15557.7	23140.0	22138.5	20605.1	16314.7	11814.2
72.5°	1575.6	1554.6	1870.1	2552.8	4384.1	8973.4	18144.4	19161.9	17680.1	12155.7	8122.7
75°	1059.6	1053.2	1171.2	1391.2	1972.0	3641.5	11354.8	13601.9	12935.4	7537.0	4568.5
77.5°	831.6	823.4	892.9	999.8	1278.0	1436.5	5039.2	7302.4	6758.8	3280.8	1999.4
80°	650.4	643.8	687.6	745.8	918.8	905.9	1658.2	2905.5	2248.6	1257.0	972.2
82.5°	512.8	512.8	548.4	550.0	651.9	617.9	865.4	1279.6	1122.7	732.8	595.3
85°	469.2	469.2	506.4	411.0	425.4	389.9	537.0	758.7	711.7	300.9	258.8
87.5°	236.2	229.7	425.4	364.1	231.4	207.1	262.0	367.2	394.7	166.6	129.4
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°	4130.0	4130.0	4130.0	4130.0	4130.0	4130.0	4130.0	4130.0	4130.0	4130.0
2.5°	4110.6	4109.0	4112.4	4113.9	4126.9	4144.6	4152.8	4164.1	4170.6	4167.2
5°	4062.1	4065.4	4078.2	4087.9	4110.6	4139.7	4156.0	4168.9	4180.3	4175.3
7.5°	4021.7	4029.7	4049.2	4057.3	4070.2	4078.2	4076.7	4081.4	4091.2	4079.9
10°	3999.1	4008.7	4023.2	4012.0	3981.2	3937.5	3897.0	3876.0	3882.6	3874.5
12.5°	3976.3	3989.4	3978.0	3924.6	3838.8	3782.3	3751.5	3754.7	3769.3	3772.5
15°	3963.4	3968.4	3919.8	3819.5	3732.1	3724.1	3740.3	3736.9	3738.6	3738.6
17.5°	3963.4	3950.4	3859.8	3759.5	3722.3	3707.8	3657.7	3594.6	3567.1	3557.4
20°	3984.4	3950.4	3840.4	3774.1	3693.3	3568.6	3436.0	3319.5	3267.9	3253.2
22.5°	4047.6	3989.4	3895.5	3780.6	3550.9	3342.2	3131.9	2992.9	2899.0	2882.8
25°	4175.3	4110.6	4003.8	3694.9	3324.4	3026.7	2787.4	2632.0	2538.3	2525.2
27.5°	4398.6	4356.5	4062.1	3505.6	3023.5	2704.8	2483.3	2363.5	2293.9	2289.2
30°	4735.1	4714.0	4033.0	3225.8	2653.1	2392.6	2285.8	2216.3	2164.6	2162.8
32.5°	5272.2	5102.4	3937.5	2884.4	2314.9	2171.1	2127.4	2085.2	2044.8	2044.8
35°	5962.9	5416.2	3756.4	2518.8	2109.5	2048.0	1993.0	1926.8	1873.3	1870.1
37.5°	6775.0	5610.3	3431.2	2224.4	2012.5	1965.5	1884.6	1786.0	1692.1	1676.0
40°	7595.2	5668.6	2973.4	2043.1	1950.9	1883.0	1784.4	1667.9	1577.2	1572.5
42.5°	8347.5	5556.8	2488.0	1918.6	1889.6	1798.9	1695.5	1591.8	1520.7	1519.0
45°	8978.4	5267.3	2080.5	1800.6	1824.7	1722.9	1630.7	1546.5	1491.5	1480.1
47.5°	9572.1	4858.0	1794.1	1676.0	1760.0	1680.8	1603.1	1524.0	1470.5	1462.4
50°	10261.2	4416.3	1593.5	1554.6	1703.5	1666.3	1625.8	1543.3	1454.4	1444.7
52.5°	11096.0	4034.6	1436.5	1447.9	1659.8	1685.7	1684.1	1598.4	1442.9	1430.1
55°	12027.8	3610.7	1318.4	1360.6	1642.0	1721.2	1698.7	1650.0	1452.6	1433.3
57.5°	12945.0	3115.7	1236.0	1294.2	1616.1	1718.0	1629.0	1559.5	1475.3	1447.9
60°	13632.6	2450.8	1172.8	1236.0	1559.5	1664.6	1553.0	1460.9	1470.5	1449.4
62.5°	13678.0	1894.3	1096.8	1185.9	1473.8	1611.3	1502.9	1417.2	1491.5	1472.1
65°	12873.9	1431.7	1024.0	1125.9	1381.6	1577.2	1454.4	1392.8	1535.3	1514.3
67.5°	10838.8	1151.8	962.5	1064.4	1289.3	1506.1	1410.7	1370.3	1574.0	1536.8
70°	7825.0	981.9	902.6	990.0	1206.9	1425.3	1371.8	1329.9	1468.9	1410.7
72.5°	4817.6	851.0	834.7	891.4	1143.7	1341.1	1313.6	1253.8	1323.4	1276.4
75°	2405.5	737.7	758.7	794.3	1054.8	1245.7	1216.6	1156.7	1166.4	1156.7
77.5°	1151.8	630.9	669.7	697.3	939.8	1137.3	1106.5	1045.1	1033.7	1035.3
80°	729.7	527.3	564.6	584.0	839.6	1011.1	980.3	918.8	1048.3	972.2
82.5°	456.2	428.8	438.5	473.9	731.2	880.0	839.6	784.6	944.7	747.4
85°	252.3	299.2	312.3	343.0	563.0	736.2	695.6	626.1	561.4	551.6
87.5°	150.5	178.0	182.8	205.4	378.5	532.2	470.7	446.5	370.5	368.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)