

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: P269658

Luminaire Tested: **GLEON-AF-09-LED-E1-T2-7027-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269658  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-09-LED-E1-T2-7027-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29892 lumens  
Efficiency: N/A  
Efficacy: 103.1 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B3 - U0 - G4

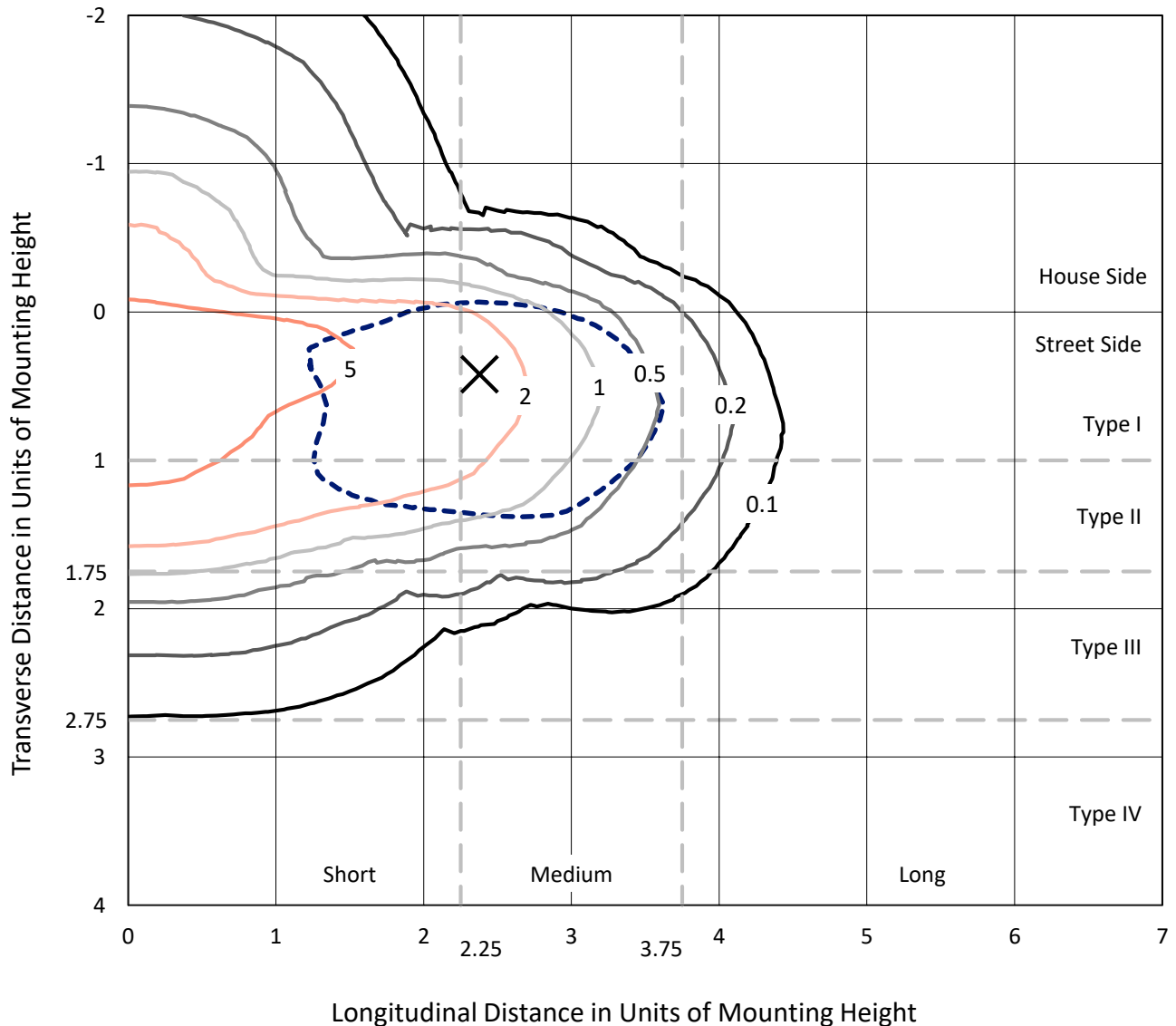
Input Watts (W): 290  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

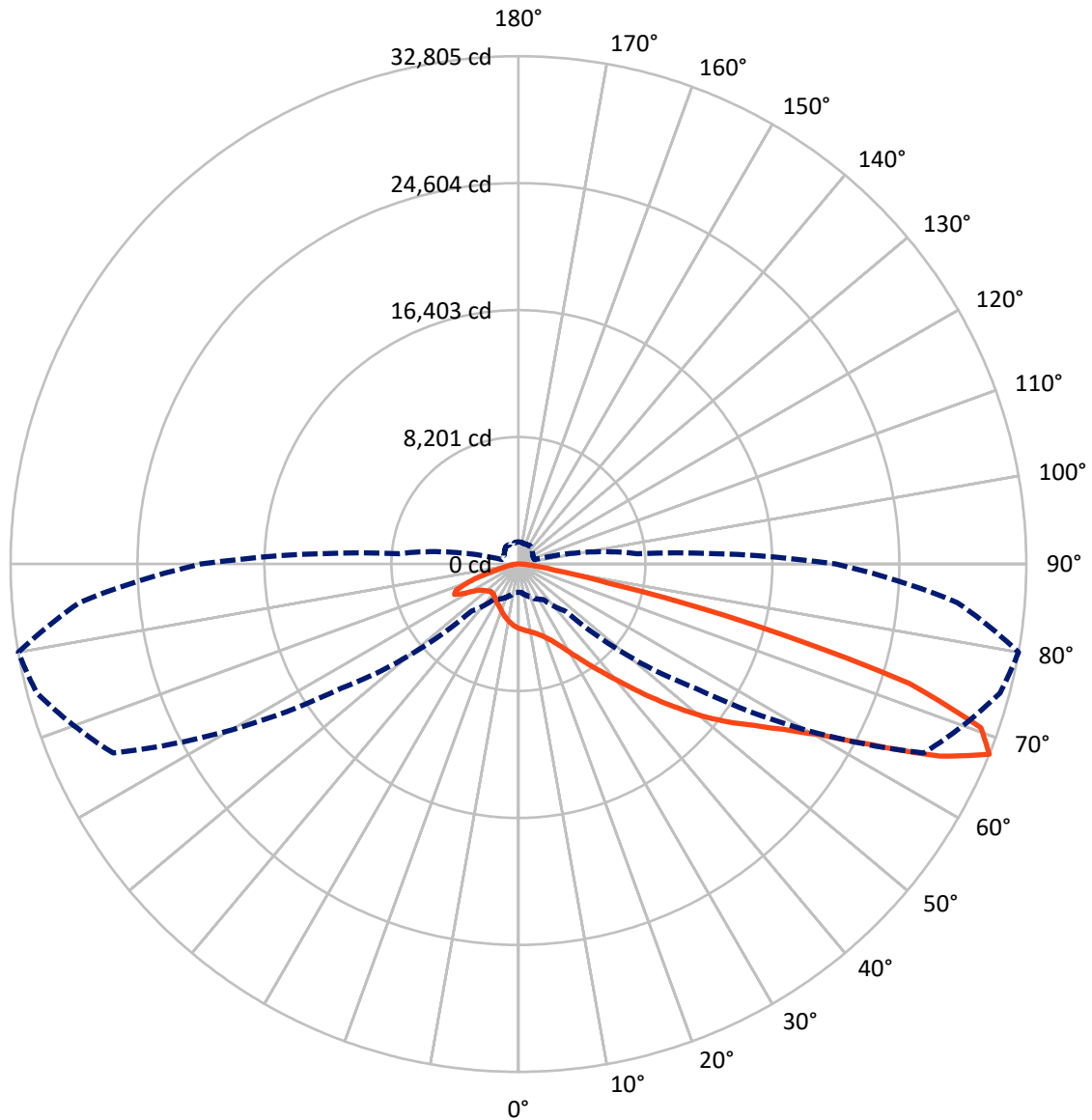
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc  
 Type II - Medium - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5505.0	0.0	5505.0
	% Fixture	18.4	0.0	18.4
<b>Street Side</b>	Lumens	24387.0	0.0	24387.0
	% Fixture	81.6	0.0	81.6
<b>Total</b>	Lumens	29892.0	0.0	29892.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	383.1	1.3
10°-20°	1103.6	3.7
20°-30°	1826.6	6.1
30°-40°	2987.9	10.0
40°-50°	4824.2	16.1
50°-60°	6964.8	23.3
60°-70°	7686.1	25.7
70°-80°	3542.8	11.9
80°-90°	573.0	1.9
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°	29892.0	100.0
0°-180°	29892.0	100.0



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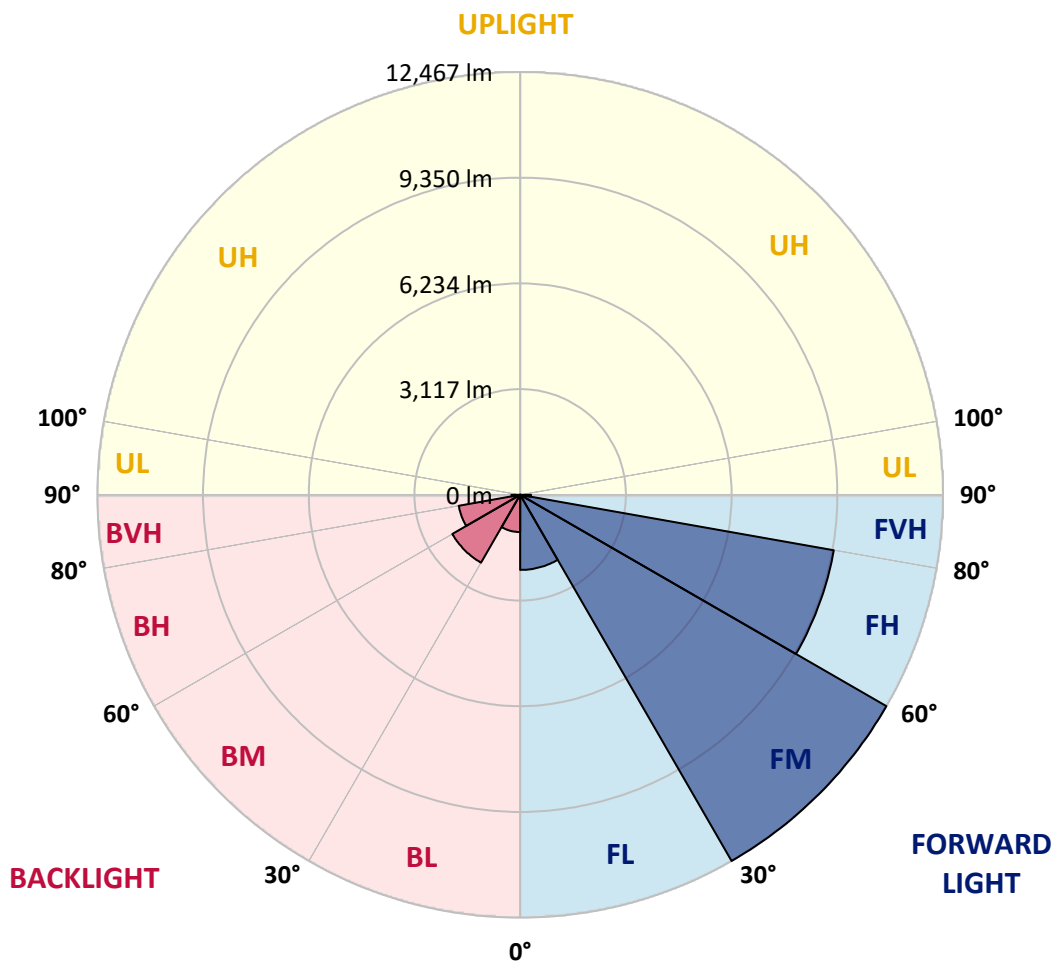
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2214.9	7.4			
FM	(30°-60°)	12467.2	41.7			
FH	(60°-80°)	9389.8	31.4			G4/12000
FVH	(80°-90°)	315.0	1.1			G3/500
BL	(0°-30°)	1098.3	3.7	B3/2500		
BM	(30°-60°)	2309.7	7.7	B2/2500		
BH	(60°-80°)	1839.0	6.2	B3/2500		G3/2500
BVH	(80°-90°)	258.0	0.9			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 II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	4152.9	4152.9	4152.9	4152.9	4152.9	4152.9	4152.9	4152.9	4152.9	4152.9	4152.9
2.5°	4542.9	4516.4	4520.8	4513.4	4491.3	4453.1	4411.8	4336.7	4258.9	4217.6	4185.3
5°	4922.5	4915.2	4904.8	4881.3	4825.3	4745.9	4647.3	4514.9	4372.1	4297.1	4225.0
7.5°	5206.5	5202.2	5188.9	5174.1	5119.7	5024.1	4875.5	4687.0	4479.6	4376.5	4264.8
10°	5230.1	5237.5	5247.8	5287.5	5294.8	5243.3	5091.8	4863.7	4591.3	4458.9	4316.3
12.5°	5029.9	5046.0	5085.8	5187.4	5294.8	5358.1	5280.1	5049.1	4722.4	4562.0	4380.9
15°	4765.1	4774.0	4822.5	4962.2	5155.1	5350.8	5424.3	5253.6	4891.6	4694.5	4478.1
17.5°	4651.8	4656.2	4690.1	4782.8	4962.2	5241.9	5505.3	5475.9	5099.0	4859.2	4597.3
20°	4594.3	4604.6	4653.2	4744.5	4857.8	5102.1	5517.0	5715.7	5346.4	5065.3	4747.5
22.5°	4757.8	4753.3	4771.0	4816.5	4912.2	5059.3	5508.1	5962.9	5661.3	5330.2	4943.2
25°	5138.8	5155.1	5124.1	5072.5	5103.5	5206.5	5555.3	6230.7	6055.7	5670.1	5199.2
27.5°	5681.9	5665.7	5620.1	5499.3	5436.2	5480.3	5711.3	6519.2	6545.7	6117.5	5537.6
30°	6223.4	6210.2	6166.1	6018.9	5889.4	5852.5	6014.4	6850.4	7129.9	6654.6	5952.7
32.5°	6785.5	6770.9	6729.7	6582.5	6426.6	6341.1	6445.6	7233.0	7818.7	7296.3	6441.1
35°	7478.7	7450.7	7363.9	7159.3	7006.3	6940.0	6988.6	7714.1	8613.3	8055.6	7034.3
37.5°	8130.6	8173.3	8084.9	7802.5	7603.8	7580.3	7634.6	8301.3	9469.8	8904.7	7715.6
40°	8785.5	8792.8	8713.4	8482.3	8277.8	8239.6	8376.3	9013.6	10480.7	9920.2	8544.0
42.5°	9462.4	9477.1	9343.2	9129.8	8979.7	8987.2	9143.0	9847.9	11640.3	11116.4	9497.7
45°	10264.5	10286.5	10139.3	9859.7	9722.9	9998.0	9933.4	10784.0	12911.9	12476.3	10592.6
47.5°	11103.3	11137.0	11025.3	10763.3	10592.6	10970.8	10723.5	11821.3	14280.4	13934.6	11794.9
50°	11560.9	11609.4	11718.4	11699.3	11662.4	11599.2	11605.1	12933.9	15691.8	15453.4	13031.1
52.5°	11315.2	11313.8	11711.1	12193.8	12708.9	12746.9	12679.3	14106.9	17010.2	16938.3	14195.0
55°	10190.8	10267.4	10869.3	11803.8	13210.7	14089.1	14289.2	15450.4	18305.3	18389.2	15376.7
57.5°	8318.9	8382.3	9194.6	10497.0	12533.6	14886.7	16579.1	17403.3	19753.4	20144.9	16949.9
60°	5642.2	5718.7	6579.5	8143.9	10711.7	14442.3	18758.5	20888.0	21486.9	22377.1	19157.3
62.5°	3315.6	3384.8	4086.7	5137.3	7542.0	12377.7	19715.1	25845.8	24240.3	25745.8	22524.5
65°	2282.5	2329.6	2671.0	3197.7	4333.9	8336.6	18529.0	29268.8	28477.0	29919.2	26428.6
67.5°	1836.6	1830.7	2101.4	2460.5	2790.1	4298.6	14011.1	28881.6	32203.1	32805.1	28454.9
70°	1512.8	1506.9	1690.9	1988.0	2229.5	2420.8	7631.7	24372.8	31443.8	31688.0	26588.9
72.5°	1265.6	1271.6	1389.1	1609.9	1829.2	1823.3	3353.8	17145.7	24736.2	26425.6	21195.5
75°	1068.4	1071.3	1149.3	1305.2	1484.9	1468.6	1818.9	9288.7	14379.1	15554.8	11749.3
77.5°	909.4	912.4	962.4	1049.3	1177.3	1171.4	1327.3	4013.1	5998.3	5924.7	4018.9
80°	810.9	810.9	834.3	850.5	921.2	894.7	984.5	1927.9	2535.6	2341.3	1604.1
82.5°	635.7	638.6	783.0	777.0	725.6	691.6	691.6	1136.0	1343.5	1242.0	938.9
85°	357.5	356.1	504.8	609.2	638.6	487.2	482.7	635.7	731.4	644.5	454.7
87.5°	153.0	155.9	234.0	270.7	361.9	303.2	298.7	328.2	372.3	322.3	210.5
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4152.9	4152.9	4152.9	4152.9	4152.9	4152.9	4152.9	4152.9	4152.9	4152.9	4152.9
2.5°	4154.3	4116.0	4032.2	3927.7	3833.5	3771.8	3715.7	3634.8	3639.3	3583.3	3542.1
5°	4151.3	4071.9	3877.7	3646.6	3424.3	3264.0	3143.3	3034.5	3008.0	2956.4	2925.5
7.5°	4154.3	4024.9	3698.1	3328.8	3053.6	2850.5	2747.5	2690.1	2676.9	2659.3	2660.7
10°	4164.6	3982.1	3501.0	3031.5	2743.1	2609.1	2584.2	2601.9	2622.4	2628.4	2629.8
12.5°	4188.2	3943.9	3284.7	2766.6	2548.9	2507.6	2550.3	2610.7	2650.4	2669.6	2668.1
15°	4241.2	3914.5	3077.1	2559.1	2441.5	2463.4	2542.9	2628.4	2685.8	2712.2	2713.6
17.5°	4298.6	3871.8	2863.7	2400.2	2362.0	2417.9	2516.4	2616.6	2687.2	2716.6	2722.5
20°	4373.6	3818.9	2640.1	2280.9	2286.8	2350.1	2442.9	2542.9	2621.0	2646.0	2657.7
22.5°	4472.2	3761.5	2444.4	2183.9	2201.6	2250.1	2322.2	2409.1	2476.6	2488.5	2498.7
25°	4604.6	3699.6	2288.3	2095.6	2102.9	2130.9	2179.5	2230.9	2278.0	2264.7	2275.0
27.5°	4782.8	3646.6	2172.1	2014.5	2001.3	2007.3	2032.2	2048.4	2073.5	2036.6	2041.0
30°	4991.7	3589.3	2082.4	1944.0	1907.2	1897.0	1902.8	1911.7	1930.7	1880.7	1873.3
32.5°	5234.6	3520.1	1998.4	1882.2	1830.7	1810.1	1813.0	1836.6	1910.2	1879.3	1863.1
35°	5517.0	3442.0	1910.2	1814.4	1779.2	1749.8	1746.8	1820.3	2039.6	2020.5	2005.7
37.5°	5848.1	3364.2	1821.9	1738.0	1740.9	1708.5	1698.2	1782.1	2064.7	1989.6	1979.3
40°	6269.0	3322.9	1746.8	1657.1	1693.8	1689.4	1668.8	1711.5	1899.8	1763.0	1745.3
42.5°	6790.0	3328.8	1690.9	1570.1	1637.9	1685.0	1652.6	1654.0	1721.8	1618.7	1602.5
45°	7433.0	3397.8	1651.2	1501.1	1574.5	1680.5	1646.8	1623.1	1629.0	1574.5	1565.7
47.5°	8183.6	3540.7	1623.1	1443.7	1514.4	1664.4	1645.2	1614.3	1601.0	1571.7	1564.3
50°	9017.9	3748.2	1602.5	1389.1	1459.8	1637.9	1646.8	1605.5	1590.8	1579.0	1574.5
52.5°	9837.7	3985.2	1571.7	1342.1	1417.2	1605.5	1651.2	1596.6	1580.5	1571.7	1567.3
55°	10751.5	4281.0	1524.6	1302.4	1381.9	1564.3	1651.2	1583.4	1565.7	1567.3	1565.7
57.5°	11986.3	4759.2	1468.6	1268.5	1339.2	1514.4	1623.1	1568.7	1546.6	1548.0	1549.5
60°	13915.5	5602.4	1400.9	1234.7	1286.3	1455.4	1584.9	1536.3	1514.4	1520.1	1521.5
62.5°	16752.8	6840.1	1312.7	1184.7	1230.3	1392.2	1531.9	1495.1	1473.1	1487.9	1487.9
65°	19701.8	7931.9	1203.8	1121.4	1171.4	1322.9	1465.8	1443.7	1421.6	1455.4	1453.9
67.5°	20495.0	7687.6	1094.9	1052.3	1112.6	1246.5	1386.3	1374.4	1362.6	1421.6	1418.7
70°	18206.7	6172.0	994.9	981.6	1047.9	1164.1	1300.8	1300.8	1293.5	1337.7	1327.3
72.5°	13871.4	4376.5	899.2	906.5	974.2	1074.3	1208.2	1218.6	1206.8	1228.8	1220.0
75°	7425.7	2504.7	803.5	824.0	882.9	983.0	1105.2	1115.4	1108.1	1106.6	1111.1
77.5°	2467.9	1224.4	703.5	735.8	787.4	888.9	997.7	1013.9	996.3	993.3	991.9
80°	1099.3	769.7	593.1	635.7	681.4	781.4	884.4	897.6	878.5	905.0	871.1
82.5°	706.3	506.3	475.4	522.5	566.7	674.0	771.1	774.1	756.5	878.5	749.0
85°	343.0	313.5	357.5	400.3	438.6	529.8	638.6	640.1	595.9	543.0	523.9
87.5°	170.7	182.4	238.4	276.7	295.8	363.5	465.1	456.2	437.0	397.3	366.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)