

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: P269498

Luminaire Tested: **GLEON-AF-07-LED-E1-T2-7027-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269498  
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-07-LED-E1-T2-7027-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 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: 23650.8 lumens  
Efficiency: N/A  
Efficacy: 104.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B3 - U0 - G3

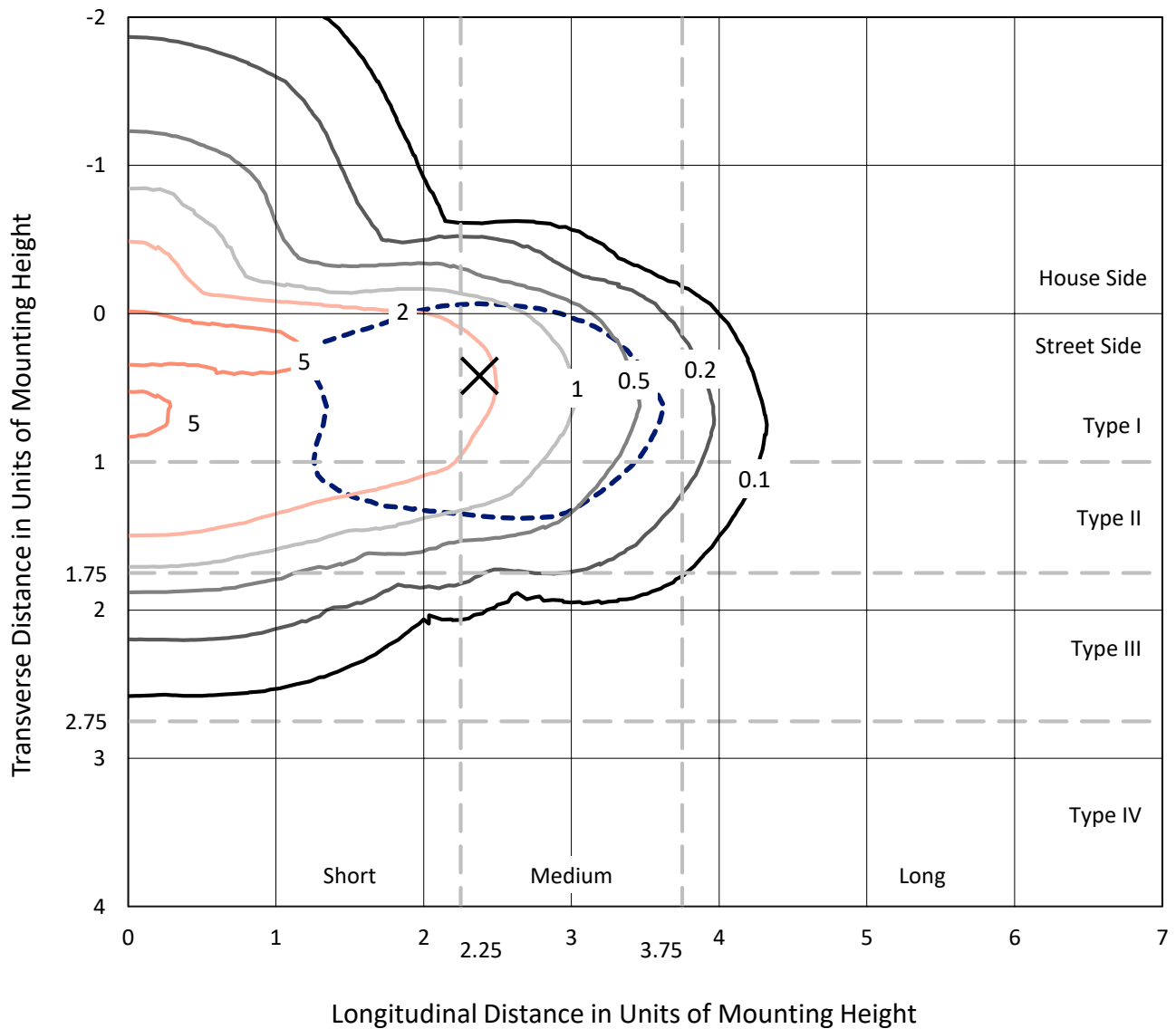
Input Watts (W): 226  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P269498  
 CATALOG NUMBER: GLEON-AF-07-LED-E1-T2-7027-600

### Iso-Footcandle Lines of Horizontal Illumination

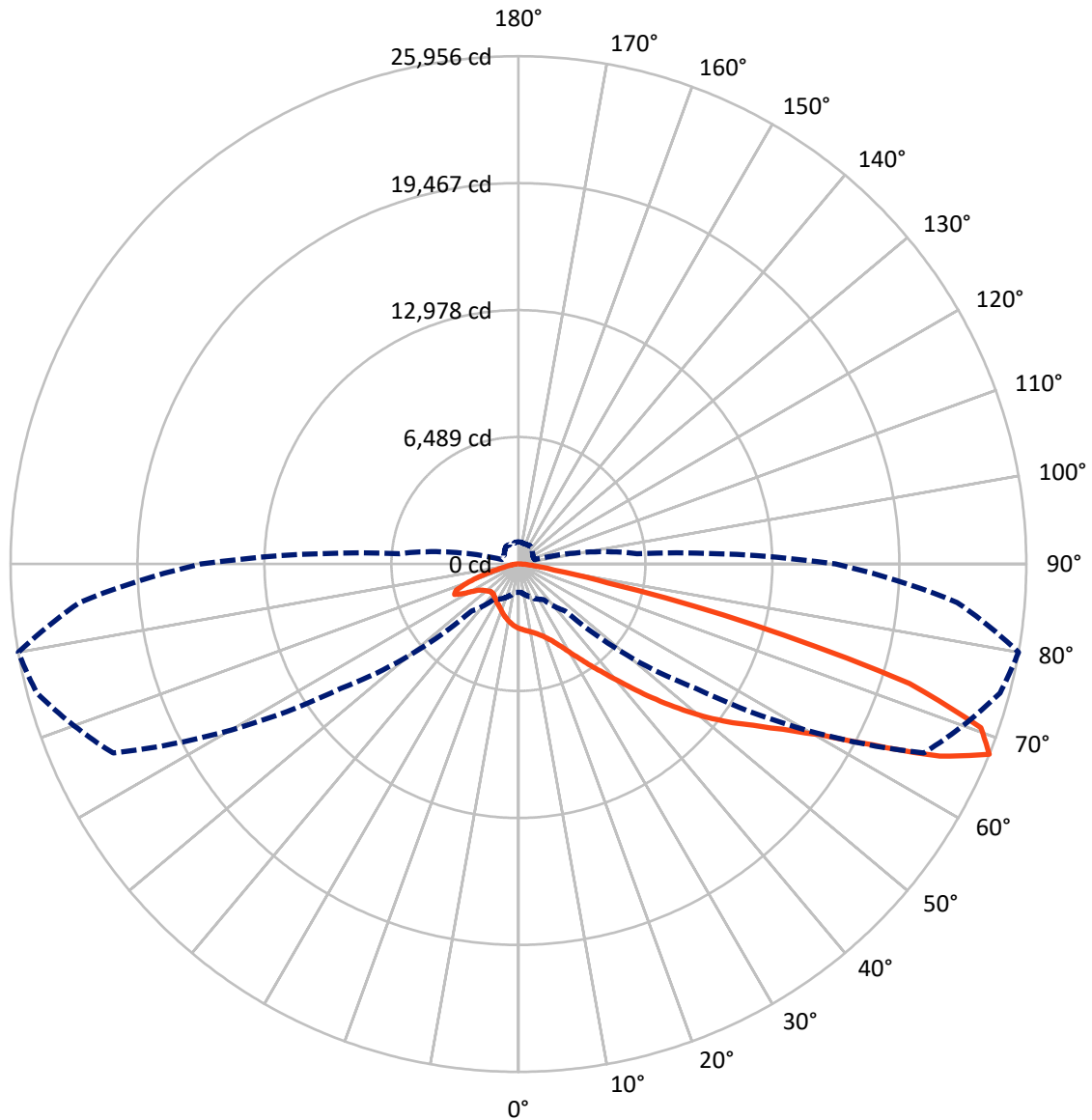
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc  
 Type II - Medium - Full Cutoff

REPORT NUMBER: P269498  
CATALOG NUMBER: GLEON-AF-07-LED-E1-T2-7027-600

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P269498

CATALOG NUMBER: GLEON-AF-07-LED-E1-T2-7027-600

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4355.6	0.0	4355.6
	% Fixture	18.4	0.0	18.4
<b>Street Side</b>	Lumens	19295.2	0.0	19295.2
	% Fixture	81.6	0.0	81.6
<b>Total</b>	Lumens	23650.8	0.0	23650.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	303.1	1.3
10°-20°	873.1	3.7
20°-30°	1445.2	6.1
30°-40°	2364.0	10.0
40°-50°	3817.0	16.1
50°-60°	5510.6	23.3
60°-70°	6081.3	25.7
70°-80°	2803.1	11.9
80°-90°	453.4	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°	23650.8	100.0
0°-180°	23650.8	100.0



REPORT NUMBER: P269498

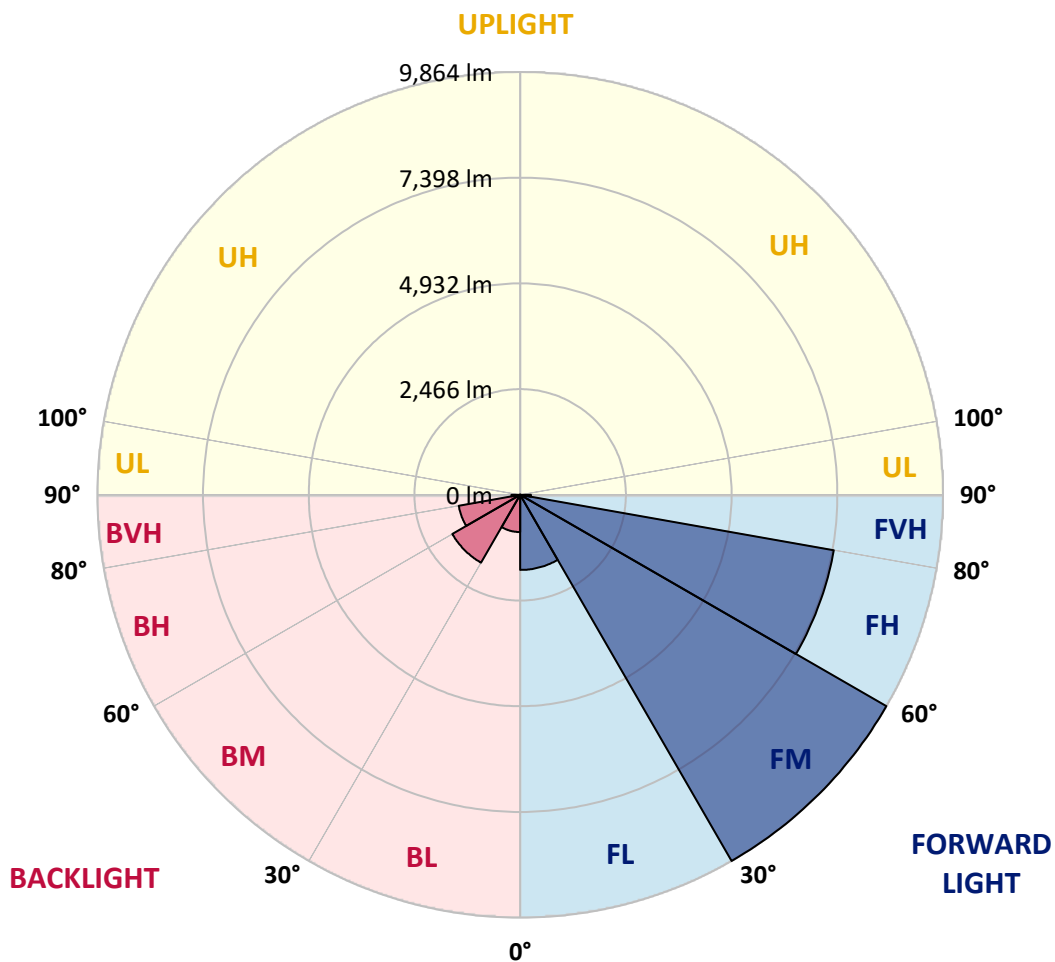
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1752.5	7.4			
FM (30°-60°)	9864.1	41.7			
FH (60°-80°)	7429.3	31.4			G3/7500
FVH (80°-90°)	249.3	1.1			G3/500
BL (0°-30°)	869.0	3.7	B2/1000		
BM (30°-60°)	1827.4	7.7	B2/2500		
BH (60°-80°)	1455.0	6.2	B3/2500		G3/2500
BVH (80°-90°)	204.1	0.9			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Medium





REPORT NUMBER: P269498

CATALOG NUMBER: GLEON-AF-07-LED-E1-T2-7027-600

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	3285.8	3285.8	3285.8	3285.8	3285.8	3285.8	3285.8	3285.8	3285.8	3285.8	3285.8
2.5°	3594.3	3573.4	3577.0	3571.0	3553.5	3523.3	3490.8	3431.3	3369.6	3337.1	3311.4
5°	3894.7	3888.9	3880.8	3862.2	3817.8	3755.1	3677.0	3572.2	3459.3	3399.8	3342.9
7.5°	4119.4	4115.9	4105.4	4093.8	4050.7	3975.1	3857.5	3708.5	3544.3	3462.7	3374.3
10°	4138.1	4143.9	4152.1	4183.4	4189.3	4148.6	4028.5	3848.2	3632.7	3528.0	3415.0
12.5°	3979.8	3992.5	4024.0	4104.4	4189.3	4239.5	4177.7	3994.9	3736.4	3609.5	3466.3
15°	3770.1	3777.2	3815.6	3926.1	4078.8	4233.5	4291.7	4156.6	3870.3	3714.2	3543.1
17.5°	3680.4	3683.9	3710.8	3784.1	3926.1	4147.4	4355.8	4332.5	4034.5	3844.7	3637.3
20°	3635.1	3643.3	3681.7	3753.8	3843.5	4036.8	4365.1	4522.2	4230.1	4007.7	3756.2
22.5°	3764.3	3760.8	3774.8	3810.9	3886.5	4002.9	4358.1	4717.9	4479.2	4217.3	3911.0
25°	4065.9	4078.8	4054.2	4013.4	4037.9	4119.4	4395.3	4929.8	4791.3	4486.2	4113.6
27.5°	4495.6	4482.7	4446.6	4351.2	4301.1	4335.9	4518.8	5158.1	5179.0	4840.2	4381.5
30°	4924.0	4913.5	4878.5	4762.2	4659.7	4630.7	4758.7	5420.1	5641.3	5265.1	4709.8
32.5°	5368.8	5357.1	5324.6	5208.2	5084.6	5017.2	5099.8	5722.7	6186.2	5772.8	5096.4
35°	5917.1	5895.0	5826.3	5664.5	5543.4	5491.1	5529.4	6103.5	6814.9	6373.7	5565.5
37.5°	6433.0	6466.8	6396.9	6173.3	6016.2	5997.5	6040.7	6568.0	7492.6	7045.4	6104.6
40°	6951.2	6957.0	6894.1	6711.2	6549.5	6519.2	6627.4	7131.6	8292.4	7848.9	6760.1
42.5°	7486.7	7498.4	7392.4	7223.6	7104.9	7110.7	7234.1	7791.8	9210.0	8795.5	7514.7
45°	8121.2	8138.7	8022.4	7801.2	7692.8	7910.6	7859.4	8532.3	10216.0	9871.4	8380.9
47.5°	8785.0	8811.7	8723.4	8516.0	8380.9	8680.2	8484.6	9353.2	11298.8	11025.2	9332.2
50°	9147.1	9185.4	9271.6	9256.6	9227.4	9177.4	9182.0	10233.4	12415.5	12226.8	10310.2
52.5°	8952.7	8951.5	9265.8	9647.7	10055.3	10085.5	10032.0	11161.4	13458.6	13401.6	11231.2
55°	8063.0	8123.6	8599.8	9339.1	10452.3	11147.4	11305.8	12224.5	14483.3	14549.7	12166.3
57.5°	6582.1	6632.0	7274.8	8305.3	9916.7	11778.4	13117.5	13769.5	15629.0	15938.6	13410.8
60°	4464.0	4524.7	5205.8	6443.5	8475.2	11426.9	14841.8	16526.7	17000.7	17705.1	15157.5
62.5°	2623.3	2677.9	3233.4	4064.7	5967.4	9793.3	15598.7	20449.3	19179.1	20370.1	17821.5
65°	1806.0	1843.1	2113.4	2530.2	3429.0	6596.1	14660.2	23157.6	22531.2	23672.2	20910.4
67.5°	1453.1	1448.4	1662.8	1946.7	2207.6	3401.1	11085.8	22851.4	25479.3	25955.5	22513.7
70°	1196.9	1192.3	1337.8	1573.0	1764.0	1915.4	6038.2	19283.8	24878.5	25071.9	21037.3
72.5°	1001.3	1006.0	1099.2	1273.7	1447.3	1442.6	2653.6	13565.8	19571.5	20908.1	16770.1
75°	845.3	847.6	909.4	1032.8	1174.9	1162.0	1439.2	7349.4	11376.9	12307.0	9296.1
77.5°	719.5	721.9	761.5	830.2	931.5	926.8	1050.3	3175.1	4745.8	4687.6	3179.8
80°	641.6	641.6	660.2	673.0	728.9	708.0	778.9	1525.3	2006.2	1852.5	1269.1
82.5°	503.1	505.3	619.4	614.8	574.0	547.2	547.2	898.8	1063.1	982.7	742.9
85°	283.0	281.8	399.3	482.0	505.3	385.5	381.9	503.1	578.7	510.0	359.9
87.5°	121.1	123.3	185.1	214.2	286.4	239.8	236.3	259.6	294.6	254.9	166.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P269498

CATALOG NUMBER: GLEON-AF-07-LED-E1-T2-7027-600

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3285.8	3285.8	3285.8	3285.8	3285.8	3285.8	3285.8	3285.8	3285.8	3285.8	3285.8
2.5°	3287.0	3256.6	3190.3	3107.6	3033.0	2984.2	2940.0	2876.0	2879.4	2835.2	2802.6
5°	3284.7	3221.7	3068.0	2885.3	2709.4	2582.4	2487.0	2400.9	2379.9	2339.1	2314.8
7.5°	3287.0	3184.5	2926.0	2633.7	2416.0	2255.4	2173.8	2128.4	2117.9	2104.0	2105.2
10°	3295.2	3150.7	2770.0	2398.6	2170.3	2064.3	2044.6	2058.6	2074.8	2079.5	2080.7
12.5°	3313.7	3120.4	2598.7	2189.0	2016.7	1984.0	2017.9	2065.6	2097.0	2112.2	2110.9
15°	3355.7	3097.1	2434.6	2024.8	1931.6	1949.1	2011.9	2079.5	2124.9	2146.0	2147.0
17.5°	3401.1	3063.4	2265.9	1899.0	1868.7	1913.0	1991.1	2070.2	2126.1	2149.4	2154.0
20°	3460.5	3021.4	2088.7	1804.8	1809.4	1859.4	1932.9	2011.9	2073.6	2093.5	2102.8
22.5°	3538.5	2976.1	1934.1	1727.9	1741.9	1780.4	1837.4	1906.1	1959.7	1968.9	1977.1
25°	3643.3	2927.1	1810.5	1658.0	1663.8	1685.9	1724.3	1765.1	1802.4	1791.8	1800.1
27.5°	3784.1	2885.3	1718.5	1594.0	1583.5	1588.2	1608.0	1620.7	1640.6	1611.5	1615.0
30°	3949.5	2839.8	1647.5	1538.1	1509.1	1500.9	1505.5	1512.4	1527.6	1488.0	1482.3
32.5°	4141.5	2785.1	1581.1	1489.2	1448.4	1432.2	1434.5	1453.1	1511.3	1486.9	1474.1
35°	4365.1	2723.4	1511.3	1435.6	1407.7	1384.4	1382.1	1440.3	1613.7	1598.7	1586.9
37.5°	4627.1	2661.7	1441.5	1375.0	1377.5	1351.8	1343.7	1410.0	1633.6	1574.2	1566.0
40°	4960.1	2629.1	1382.1	1311.0	1340.1	1336.7	1320.4	1354.1	1503.1	1394.9	1381.0
42.5°	5372.3	2633.7	1337.8	1242.4	1296.0	1333.2	1307.6	1308.7	1362.3	1280.8	1268.0
45°	5881.2	2688.4	1306.3	1187.6	1245.9	1329.8	1302.9	1284.2	1288.9	1245.9	1238.9
47.5°	6475.0	2801.5	1284.2	1142.3	1198.1	1316.8	1301.7	1277.3	1266.8	1243.6	1237.8
50°	7135.1	2965.6	1268.0	1099.2	1155.0	1296.0	1302.9	1270.4	1258.6	1249.4	1245.9
52.5°	7783.6	3153.1	1243.6	1061.8	1121.3	1270.4	1306.3	1263.2	1250.5	1243.6	1240.0
55°	8506.7	3387.1	1206.2	1030.4	1093.2	1237.8	1306.3	1252.9	1238.9	1240.0	1238.9
57.5°	9483.5	3765.4	1162.0	1003.6	1059.6	1198.1	1284.2	1241.2	1223.8	1224.8	1226.0
60°	11010.0	4432.6	1108.5	976.8	1017.6	1151.5	1254.0	1215.5	1198.1	1202.8	1203.9
62.5°	13254.9	5411.8	1038.6	937.3	973.5	1101.5	1212.2	1183.0	1165.6	1177.1	1177.1
65°	15588.3	6275.7	952.5	887.3	926.8	1046.7	1159.7	1142.3	1124.8	1151.5	1150.4
67.5°	16215.8	6082.6	866.2	832.5	880.2	986.2	1096.8	1087.5	1078.1	1124.8	1122.4
70°	14405.3	4883.2	787.0	776.7	829.0	921.0	1029.3	1029.3	1023.4	1058.5	1050.3
72.5°	10975.1	3462.7	711.4	717.2	770.7	849.9	955.9	964.2	954.8	972.2	965.3
75°	5875.3	1981.8	635.7	652.0	698.6	777.8	874.4	882.6	876.7	875.6	879.1
77.5°	1952.6	968.7	556.6	582.2	623.0	703.3	789.4	802.2	788.3	785.9	784.8
80°	869.7	609.0	469.3	503.1	539.2	618.3	699.8	710.3	695.1	716.0	689.3
82.5°	558.8	400.6	376.1	413.3	448.3	533.2	610.0	612.5	598.5	695.1	592.6
85°	271.3	248.0	283.0	316.7	346.9	419.1	505.3	506.5	471.6	429.6	414.5
87.5°	135.0	144.4	188.6	218.8	234.0	287.5	367.9	360.9	345.8	314.3	290.0
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)