

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: P192539

Luminaire Tested: **GLEON-AF-01-LED-E1-5MQ-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192539
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-01-LED-E1-5MQ-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5116.6 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G1

Input Watts (W): 44
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

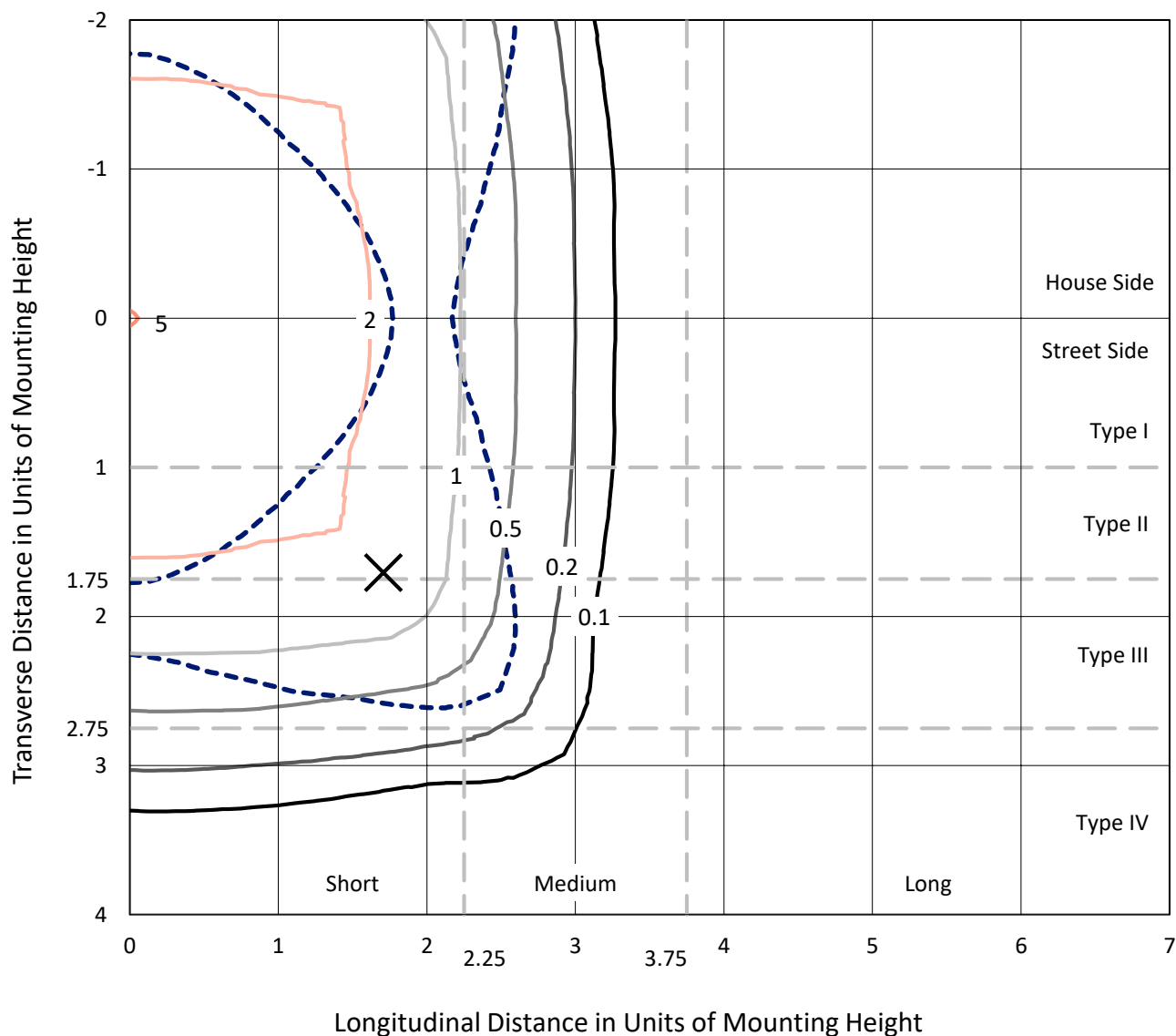


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

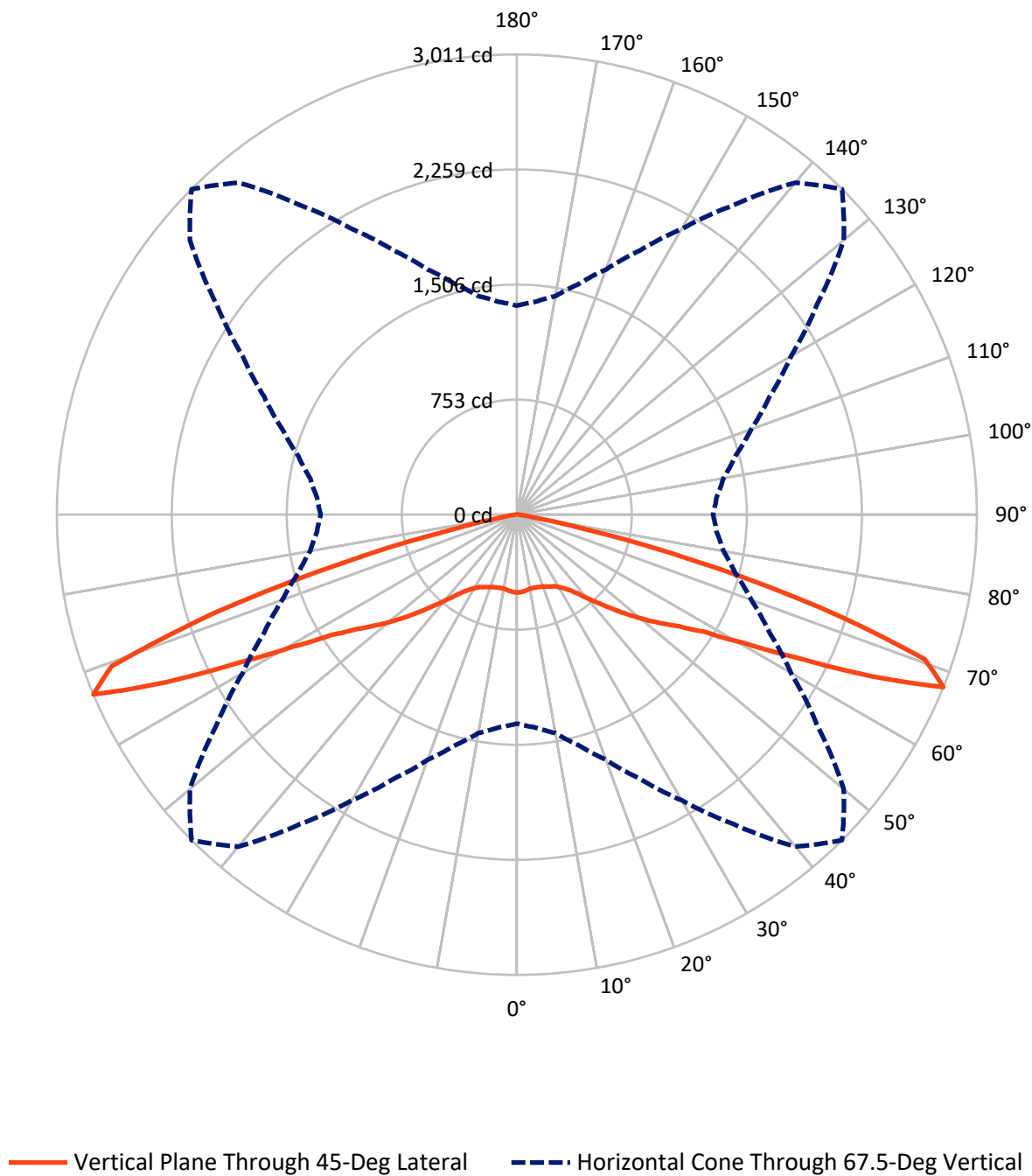


Based on 10 foot mounting height. Maximum calculated value = 5.1 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2558.3	0.0	2558.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2558.3	0.0	2558.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	5116.6	0.0	5116.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.7	0.9
10°-20°	138.5	2.7
20°-30°	235.4	4.6
30°-40°	384.8	7.5
40°-50°	687.0	13.4
50°-60°	1158.3	22.6
60°-70°	1797.5	35.1
70°-80°	631.6	12.3
80°-90°	35.7	0.7
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°	5116.6	100.0
0°-180°	5116.6	100.0



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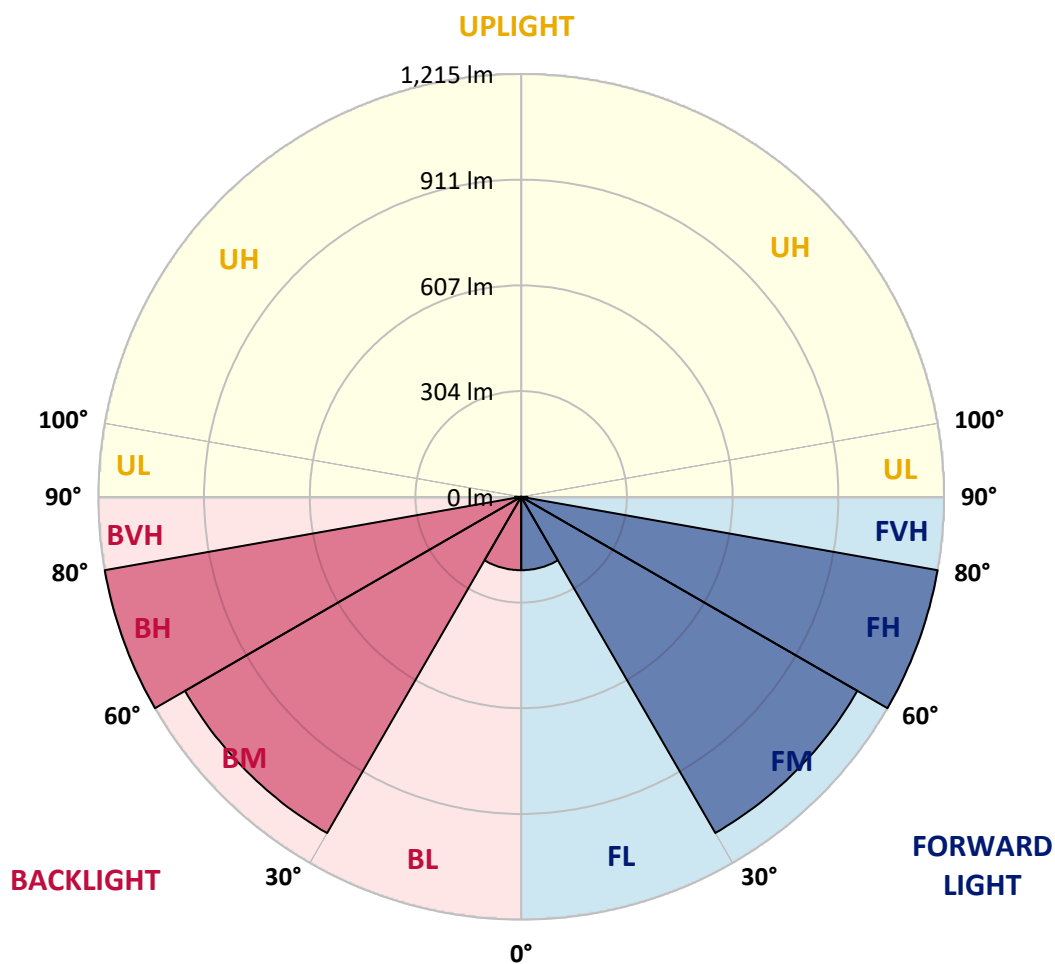
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	210.8	4.1			
FM	(30°-60°)	1115.1	21.8			
FH	(60°-80°)	1214.6	23.7			G1/1800
FVH	(80°-90°)	17.9	0.3			G1/100
BL	(0°-30°)	210.8	4.1	B1/500		
BM	(30°-60°)	1115.1	21.8	B2/2500		
BH	(60°-80°)	1214.6	23.7	B3/2500		G1/1800
BVH	(80°-90°)	17.9	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	509.9	509.9	509.9	509.9	509.9	509.9	509.9	509.9	509.9	509.9	509.9
2.5°	508.0	508.5	508.5	508.5	508.3	508.3	507.7	508.3	508.0	507.3	507.5
5°	503.8	504.2	504.2	504.0	504.7	504.4	503.8	504.2	504.0	503.5	503.8
7.5°	497.6	498.3	498.3	498.1	498.9	498.6	498.1	498.3	498.3	497.6	497.6
10°	490.8	491.3	491.3	491.1	492.2	492.2	492.0	492.8	493.0	492.2	491.7
12.5°	484.4	485.2	485.2	486.1	487.3	487.8	488.9	489.9	490.8	490.6	489.7
15°	480.7	481.2	482.2	483.3	485.2	486.9	488.7	490.8	492.8	493.2	491.7
17.5°	478.3	479.1	480.5	482.2	484.7	487.6	490.3	493.2	495.8	496.7	495.1
20°	477.7	478.1	479.5	482.4	485.8	490.1	494.2	497.4	501.0	502.1	501.0
22.5°	479.1	479.9	481.7	485.0	489.7	495.1	499.8	504.2	508.7	510.8	509.1
25°	485.4	486.3	488.5	492.8	497.9	503.5	508.9	514.2	518.1	520.3	519.1
27.5°	497.2	498.3	501.0	505.3	510.8	516.9	522.8	527.0	530.4	531.1	529.7
30°	514.8	517.5	520.5	525.2	531.8	536.9	542.8	546.7	550.5	550.5	549.5
32.5°	542.4	544.9	548.3	552.8	557.9	563.6	568.7	572.0	576.3	576.5	573.6
35°	583.6	584.7	587.5	590.3	595.0	600.1	604.5	606.6	610.1	610.3	607.8
37.5°	637.8	638.2	640.0	641.0	645.1	650.6	654.8	656.2	659.5	659.1	656.4
40°	701.2	702.3	703.1	704.5	709.0	714.1	718.6	719.3	722.9	722.1	718.8
42.5°	774.3	774.8	778.8	780.9	785.1	787.8	793.4	794.1	798.3	796.5	792.6
45°	856.5	860.8	864.5	868.7	873.2	876.3	880.7	879.7	882.6	879.7	877.7
47.5°	942.8	945.8	954.4	960.9	968.2	970.9	977.3	974.4	977.3	973.2	972.5
50°	1037.9	1043.3	1050.6	1058.1	1066.0	1070.0	1078.4	1074.9	1078.6	1074.9	1072.7
52.5°	1131.6	1132.9	1149.0	1160.0	1170.8	1175.7	1180.8	1179.1	1179.4	1179.1	1176.9
55°	1220.5	1223.8	1239.8	1254.9	1273.6	1287.5	1296.1	1295.0	1293.0	1290.9	1287.3
57.5°	1320.7	1324.0	1342.4	1361.0	1382.3	1402.2	1419.3	1437.0	1443.8	1445.7	1438.0
60°	1456.3	1456.0	1480.5	1503.1	1533.7	1563.1	1600.7	1639.1	1683.1	1703.6	1676.5
62.5°	1594.2	1599.8	1635.1	1675.1	1738.1	1799.6	1869.0	1937.1	2006.9	2063.6	2003.4
65°	1577.7	1599.3	1651.8	1742.3	1858.8	1997.3	2146.8	2305.3	2448.3	2546.7	2436.3
67.5°	1367.3	1398.2	1451.5	1561.7	1707.2	1906.9	2158.2	2471.3	2835.4	3011.4	2793.2
70°	991.1	1026.0	1081.8	1189.4	1333.6	1523.3	1796.2	2172.3	2654.1	2831.6	2591.3
72.5°	493.2	512.0	546.7	615.0	724.3	878.1	1125.7	1487.1	1913.4	2076.3	1856.8
75°	167.5	176.2	182.1	204.5	239.1	299.6	422.7	650.1	991.7	1189.0	977.7
77.5°	96.7	96.9	100.9	104.9	110.8	117.5	133.9	175.8	304.0	431.8	314.5
80°	62.6	62.4	65.7	68.8	72.6	76.1	76.9	81.4	93.9	111.3	99.5
82.5°	32.4	36.5	43.8	47.7	55.2	56.7	54.8	53.2	56.3	58.4	59.8
85°	17.9	15.6	23.3	30.1	33.5	33.9	33.9	32.0	33.3	32.4	35.3
87.5°	8.2	7.5	9.2	14.9	15.8	13.4	14.1	12.4	9.0	8.7	9.9
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	509.9	509.9	509.9	509.9	509.9	509.9	509.9	509.9
2.5°	507.5	507.7	507.7	508.5	508.7	509.1	509.7	509.9
5°	503.5	504.2	503.8	504.4	504.4	505.0	505.0	505.3
7.5°	497.6	498.3	498.3	498.3	498.1	498.9	498.9	498.9
10°	491.5	492.0	491.7	491.3	490.8	491.5	491.3	491.1
12.5°	489.7	488.5	487.6	487.1	486.1	486.3	485.6	485.6
15°	490.8	488.7	487.1	486.3	485.4	485.0	484.4	484.7
17.5°	493.9	491.3	489.2	488.1	486.9	486.1	485.2	485.4
20°	499.4	496.2	493.2	490.8	488.7	487.6	486.9	486.6
22.5°	507.3	502.8	498.3	494.8	492.0	490.3	489.7	489.2
25°	516.5	511.6	506.4	502.4	499.6	497.4	496.0	496.0
27.5°	528.0	524.0	519.3	514.6	512.0	509.9	508.9	508.5
30°	547.3	543.6	539.7	535.3	532.0	529.9	528.3	526.8
32.5°	572.0	568.9	565.9	562.5	559.5	556.6	554.2	553.0
35°	606.8	604.5	602.3	598.6	597.4	595.8	594.4	593.2
37.5°	654.8	653.9	653.9	649.9	649.0	648.2	646.9	647.1
40°	718.0	718.8	717.7	716.2	715.5	713.7	713.7	715.3
42.5°	792.4	793.2	795.7	793.4	796.1	793.7	792.2	793.4
45°	879.1	881.6	886.8	884.5	886.1	882.2	877.3	877.5
47.5°	976.2	978.6	980.7	979.1	979.3	972.7	966.2	964.5
50°	1077.2	1078.2	1079.3	1077.0	1077.4	1070.0	1062.6	1062.9
52.5°	1176.9	1181.4	1186.1	1179.8	1178.4	1170.1	1159.6	1155.3
55°	1291.1	1297.5	1292.0	1280.9	1269.9	1258.8	1245.0	1242.6
57.5°	1431.9	1420.9	1404.0	1383.1	1367.8	1352.3	1338.1	1332.3
60°	1627.5	1586.9	1556.3	1525.3	1505.7	1486.6	1468.0	1465.1
62.5°	1904.3	1833.9	1773.0	1708.7	1656.3	1615.3	1582.6	1573.5
65°	2251.1	2084.7	1940.6	1805.9	1688.9	1600.7	1545.3	1520.8
67.5°	2400.3	2071.8	1824.5	1633.4	1480.5	1373.7	1313.7	1283.8
70°	2109.2	1718.1	1449.3	1257.9	1118.6	1004.7	950.3	918.4
72.5°	1451.1	1092.9	864.2	705.4	594.2	498.9	461.2	458.4
75°	651.5	431.6	297.4	229.2	193.0	167.8	159.9	154.2
77.5°	182.4	134.8	120.1	112.4	104.9	96.2	93.0	93.6
80°	88.7	83.8	80.6	75.5	68.8	61.4	58.1	59.5
82.5°	58.8	58.1	60.2	56.7	46.9	39.8	33.5	30.6
85°	35.7	36.3	36.9	37.1	31.5	22.1	15.1	16.9
87.5°	14.1	16.3	17.7	18.3	17.2	10.6	8.5	8.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)