

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: P193380

Luminaire Tested: **GLEON-AF-02-LED-E1-5NQ-8030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193380  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-02-LED-E1-5NQ-8030-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8282 lumens  
Efficiency: N/A  
Efficacy: 97.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B3 - U0 - G1

Input Watts (W): 85  
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

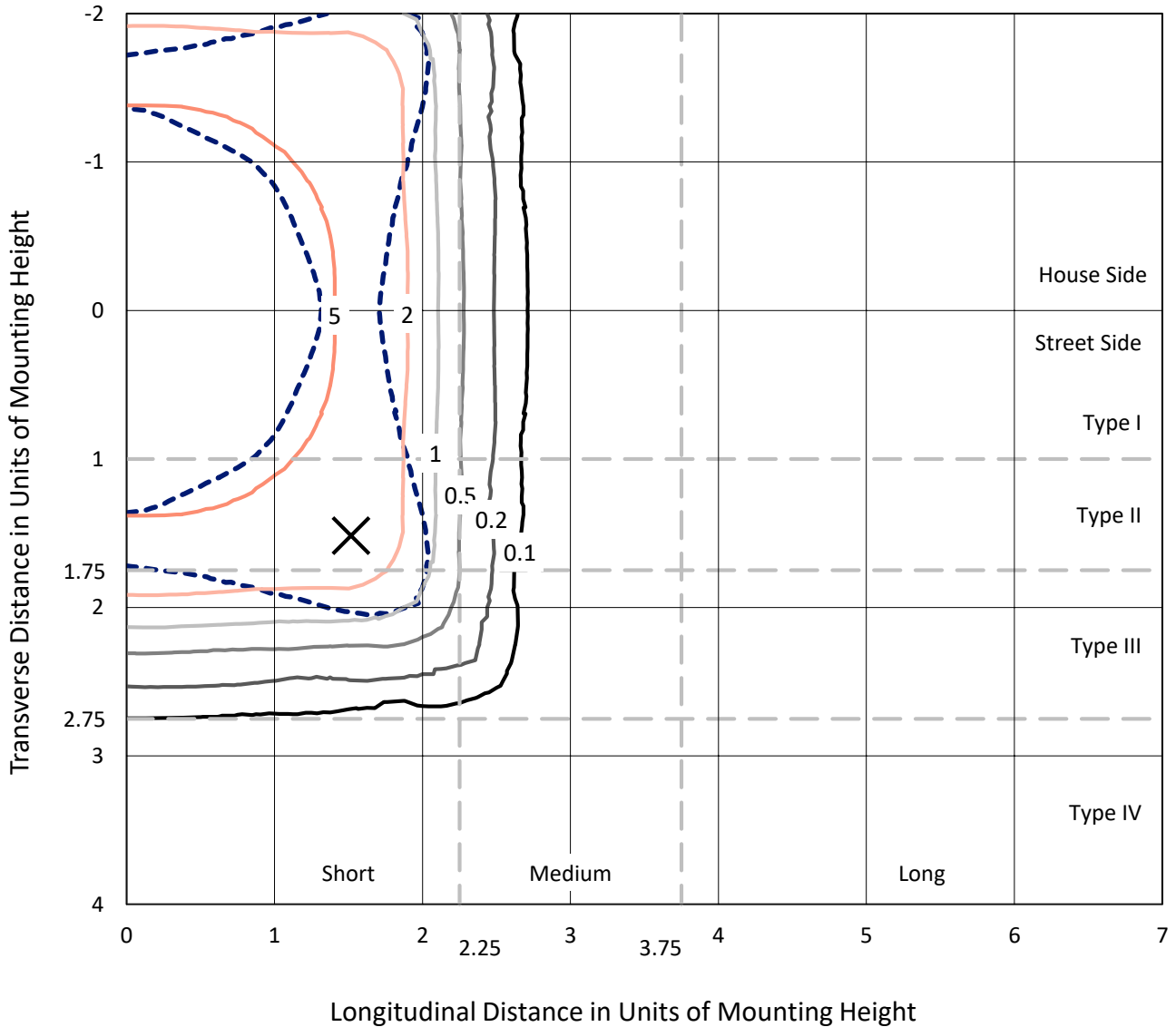


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

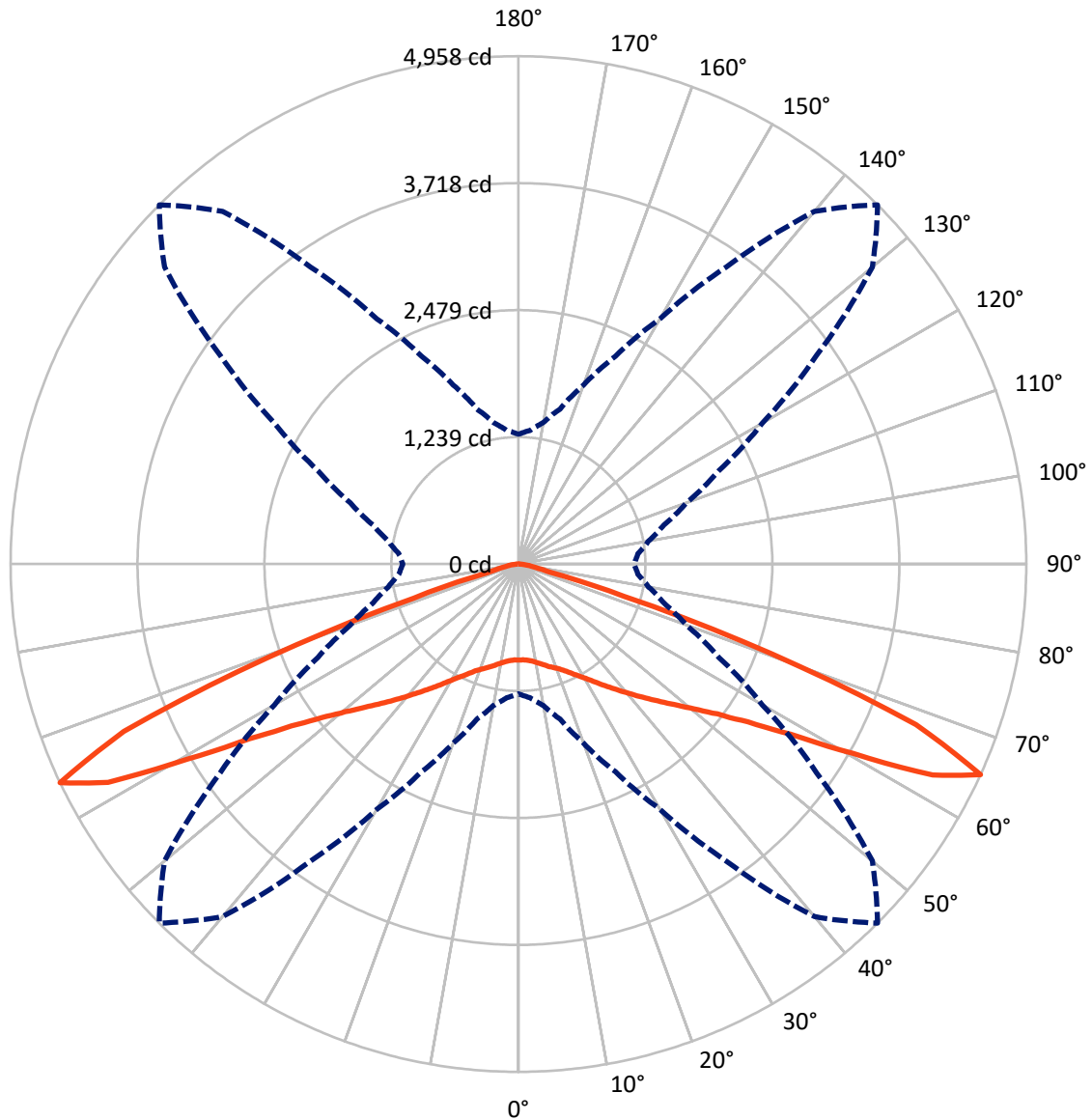


Based on 10 foot mounting height. Maximum calculated value = 9.4 fc  
 Type V - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4141.0	0.0	4141.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4141.0	0.0	4141.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	8282.0	0.0	8282.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.3	1.1
10°-20°	292.9	3.5
20°-30°	547.7	6.6
30°-40°	926.4	11.2
40°-50°	1514.7	18.3
50°-60°	2408.7	29.1
60°-70°	2177.3	26.3
70°-80°	275.5	3.3
80°-90°	47.4	0.6
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°	8282.0	100.0
0°-180°	8282.0	100.0



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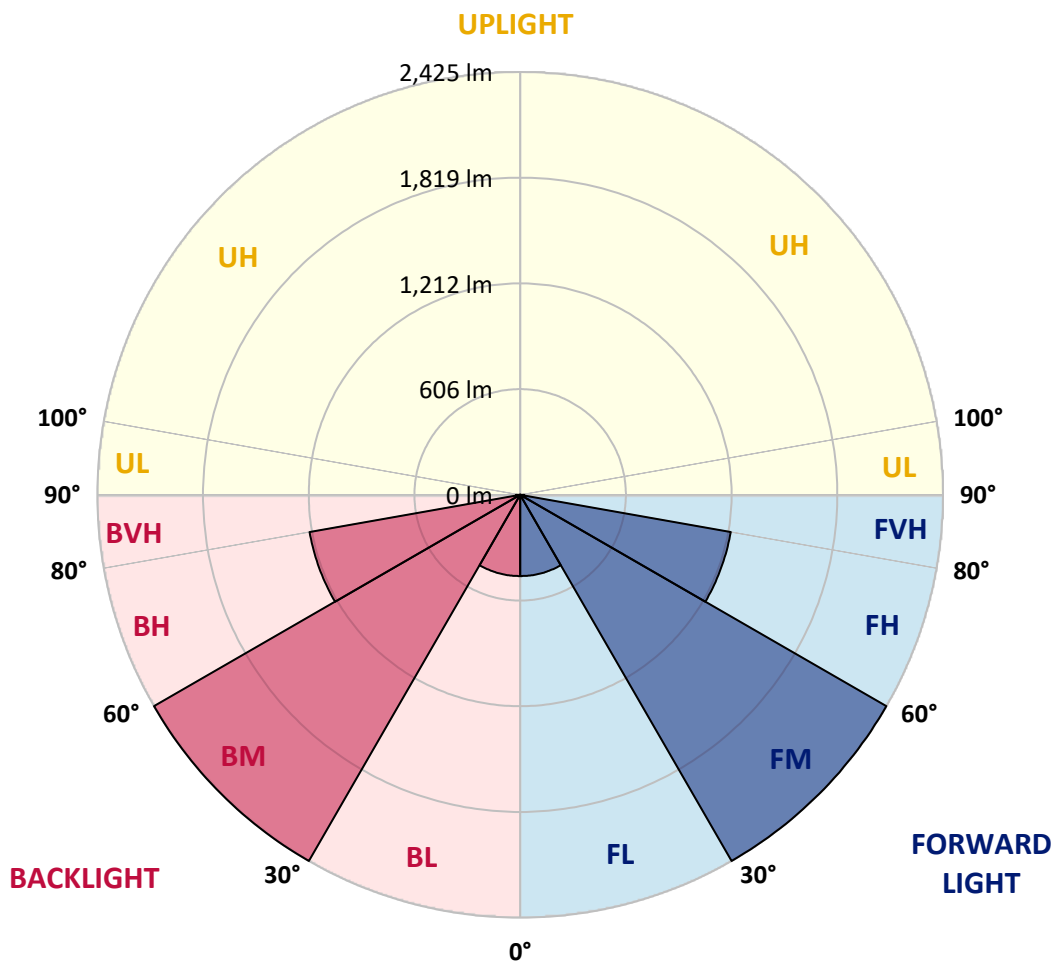
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	466.0	5.6			
FM	(30°-60°)	2424.9	29.3			
FH	(60°-80°)	1226.4	14.8			G1/1800
FVH	(80°-90°)	23.7	0.3			G1/100
BL	(0°-30°)	466.0	5.6	B1/500		
BM	(30°-60°)	2424.9	29.3	B2/2500		
BH	(60°-80°)	1226.4	14.8	B3/2500		G1/1800
BVH	(80°-90°)	23.7	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°	937.1	937.1	937.1	937.1	937.1	937.1	937.1	937.1	937.1	937.1	937.1
2.5°	937.9	938.7	939.4	938.7	939.4	938.3	937.5	938.7	937.5	936.3	937.1
5°	946.0	946.4	946.4	945.3	946.4	945.6	944.5	946.0	944.9	943.7	944.5
7.5°	959.6	961.2	960.0	958.8	959.6	958.8	958.1	958.4	958.1	956.9	957.3
10°	977.8	979.0	978.2	977.8	978.6	978.2	977.5	977.1	977.5	976.3	976.3
12.5°	999.9	999.6	999.2	999.6	1000.7	1000.7	1000.3	1000.7	1001.5	1001.9	1001.1
15°	1021.7	1022.4	1022.4	1022.4	1024.8	1026.7	1027.9	1028.7	1030.2	1030.6	1029.0
17.5°	1048.8	1048.8	1048.4	1048.8	1051.1	1054.3	1055.4	1057.0	1058.5	1059.7	1057.7
20°	1079.1	1079.9	1079.9	1080.6	1083.7	1087.2	1087.2	1088.0	1087.2	1088.0	1086.8
22.5°	1115.9	1118.3	1118.3	1118.6	1121.7	1126.0	1124.8	1126.0	1124.1	1125.6	1124.1
25°	1164.0	1167.5	1166.7	1166.7	1169.1	1171.8	1172.2	1174.5	1174.1	1176.0	1174.9
27.5°	1218.3	1223.8	1225.3	1224.9	1226.5	1229.2	1230.0	1232.7	1231.1	1232.7	1231.9
30°	1283.5	1285.8	1288.9	1290.1	1292.0	1294.7	1294.7	1295.1	1293.2	1295.5	1296.7
32.5°	1351.0	1355.2	1358.3	1365.3	1368.8	1370.8	1370.4	1371.1	1369.2	1372.3	1374.6
35°	1440.2	1443.3	1448.3	1453.8	1458.4	1458.0	1456.9	1457.3	1457.3	1460.0	1462.3
37.5°	1547.6	1548.4	1555.0	1562.8	1565.1	1562.8	1555.8	1554.2	1550.7	1554.2	1558.1
40°	1661.3	1664.0	1677.2	1682.2	1683.4	1679.1	1669.0	1663.2	1655.5	1659.7	1665.2
42.5°	1780.4	1785.8	1797.8	1806.7	1810.6	1807.9	1793.9	1785.0	1774.9	1777.3	1782.7
45°	1912.2	1918.8	1935.9	1944.4	1951.8	1947.5	1934.0	1920.4	1904.5	1905.6	1914.2
47.5°	2059.6	2066.2	2088.3	2102.7	2106.6	2105.8	2090.7	2072.0	2050.3	2049.5	2056.9
50°	2224.9	2231.5	2259.0	2281.1	2292.4	2291.2	2273.4	2247.0	2220.6	2221.0	2230.3
52.5°	2386.2	2394.4	2423.1	2461.1	2483.2	2499.1	2488.2	2463.4	2431.2	2432.0	2440.5
55°	2537.5	2551.1	2584.0	2635.6	2676.7	2721.4	2734.2	2733.4	2714.0	2719.4	2727.9
57.5°	2610.8	2631.0	2681.8	2763.2	2847.0	2937.8	3014.6	3072.0	3096.4	3133.3	3124.7
60°	2471.9	2504.1	2579.0	2698.9	2864.5	3053.8	3256.6	3454.8	3623.9	3751.6	3678.2
62.5°	2023.9	2065.8	2156.6	2310.2	2560.8	2863.7	3252.0	3720.5	4231.0	4538.9	4319.0
65°	1266.4	1309.9	1402.2	1566.6	1859.9	2236.5	2763.2	3539.8	4493.6	4957.9	4510.2
67.5°	493.8	517.4	567.5	672.6	892.9	1228.0	1756.7	2638.0	3778.7	4185.6	3708.5
70°	247.5	249.8	259.1	278.5	325.8	423.2	643.9	1223.0	2167.1	2617.4	2089.1
72.5°	178.8	179.2	183.9	192.4	207.5	229.2	271.1	374.3	704.8	1077.1	660.6
75°	136.9	138.5	141.2	145.8	154.0	164.8	180.0	215.7	267.2	309.9	260.7
77.5°	105.5	108.6	110.5	114.8	119.9	127.2	131.5	145.1	168.7	177.6	174.9
80°	80.3	83.0	87.3	90.8	94.3	97.7	96.2	102.4	114.8	122.2	118.3
82.5°	51.2	54.3	66.7	69.8	71.4	73.7	71.0	71.4	76.8	81.5	76.8
85°	33.0	34.9	42.3	46.2	46.5	48.1	46.9	44.2	44.2	40.3	45.4
87.5°	15.1	15.5	19.0	22.5	23.3	20.9	20.6	19.8	15.9	15.1	16.3
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°	937.1	937.1	937.1	937.1	937.1	937.1	937.1	937.1
2.5°	936.7	937.5	937.9	939.1	939.4	939.4	939.8	940.6
5°	944.1	945.3	945.6	947.2	947.6	947.2	948.0	948.4
7.5°	957.3	959.2	960.0	961.5	960.4	961.9	962.3	962.3
10°	976.7	978.6	979.0	980.6	979.8	980.6	980.6	979.8
12.5°	1002.3	1002.7	1001.5	1002.7	1001.1	1001.9	1000.7	999.9
15°	1030.6	1029.4	1026.7	1026.7	1024.4	1024.8	1024.4	1024.0
17.5°	1058.1	1055.8	1053.9	1053.1	1051.1	1050.8	1049.6	1049.6
20°	1088.4	1087.2	1086.1	1084.5	1082.6	1080.6	1080.2	1081.0
22.5°	1124.8	1124.5	1124.5	1123.7	1121.0	1119.0	1117.9	1117.9
25°	1173.7	1170.2	1170.2	1169.8	1168.7	1167.5	1165.2	1166.3
27.5°	1228.8	1226.9	1228.4	1228.0	1226.9	1226.9	1225.3	1225.3
30°	1296.7	1295.9	1298.2	1296.3	1292.4	1292.0	1290.5	1288.5
32.5°	1375.0	1374.3	1377.7	1375.4	1369.2	1365.7	1362.6	1361.1
35°	1462.3	1462.7	1467.0	1465.4	1458.4	1456.1	1450.7	1449.9
37.5°	1557.7	1563.9	1571.3	1572.8	1567.0	1565.5	1559.7	1556.6
40°	1669.8	1678.0	1689.2	1691.9	1685.7	1684.6	1676.4	1672.1
42.5°	1789.3	1803.2	1817.2	1819.5	1813.3	1807.1	1799.4	1796.3
45°	1922.7	1939.4	1957.6	1962.3	1953.0	1945.6	1935.5	1935.5
47.5°	2072.4	2093.4	2113.9	2126.7	2118.2	2110.4	2098.4	2090.7
50°	2249.3	2278.0	2304.8	2318.0	2304.4	2289.6	2268.7	2261.7
52.5°	2471.2	2502.2	2525.5	2518.5	2497.5	2477.0	2454.1	2444.8
55°	2754.3	2764.8	2764.8	2738.4	2696.5	2662.0	2625.9	2613.9
57.5°	3108.5	3068.1	3006.1	2927.3	2828.4	2742.3	2684.1	2656.6
60°	3524.6	3330.7	3111.6	2896.3	2719.4	2573.6	2487.1	2447.5
62.5°	3802.0	3294.6	2855.6	2510.0	2255.5	2079.8	1960.3	1913.8
65°	3553.3	2747.7	2159.7	1746.2	1468.9	1290.1	1171.8	1128.3
67.5°	2602.7	1721.8	1150.1	824.2	603.9	481.7	433.3	413.1
70°	1168.3	606.3	371.6	290.1	250.2	229.6	220.7	217.6
72.5°	352.2	254.8	214.9	193.9	178.0	168.0	160.6	159.8
75°	212.6	176.9	157.1	144.7	134.6	126.4	122.6	121.4
77.5°	148.6	129.9	120.6	111.7	104.0	97.7	94.3	91.5
80°	104.3	95.4	91.2	86.1	81.1	75.2	70.2	67.9
82.5°	69.8	67.9	67.9	64.8	60.5	55.1	45.0	42.7
85°	45.0	44.6	45.4	44.2	41.1	35.3	29.1	27.5
87.5°	20.9	21.3	23.7	23.3	22.5	18.6	14.7	14.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)