

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: P193540

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193540
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)
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-RW-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8207 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G3

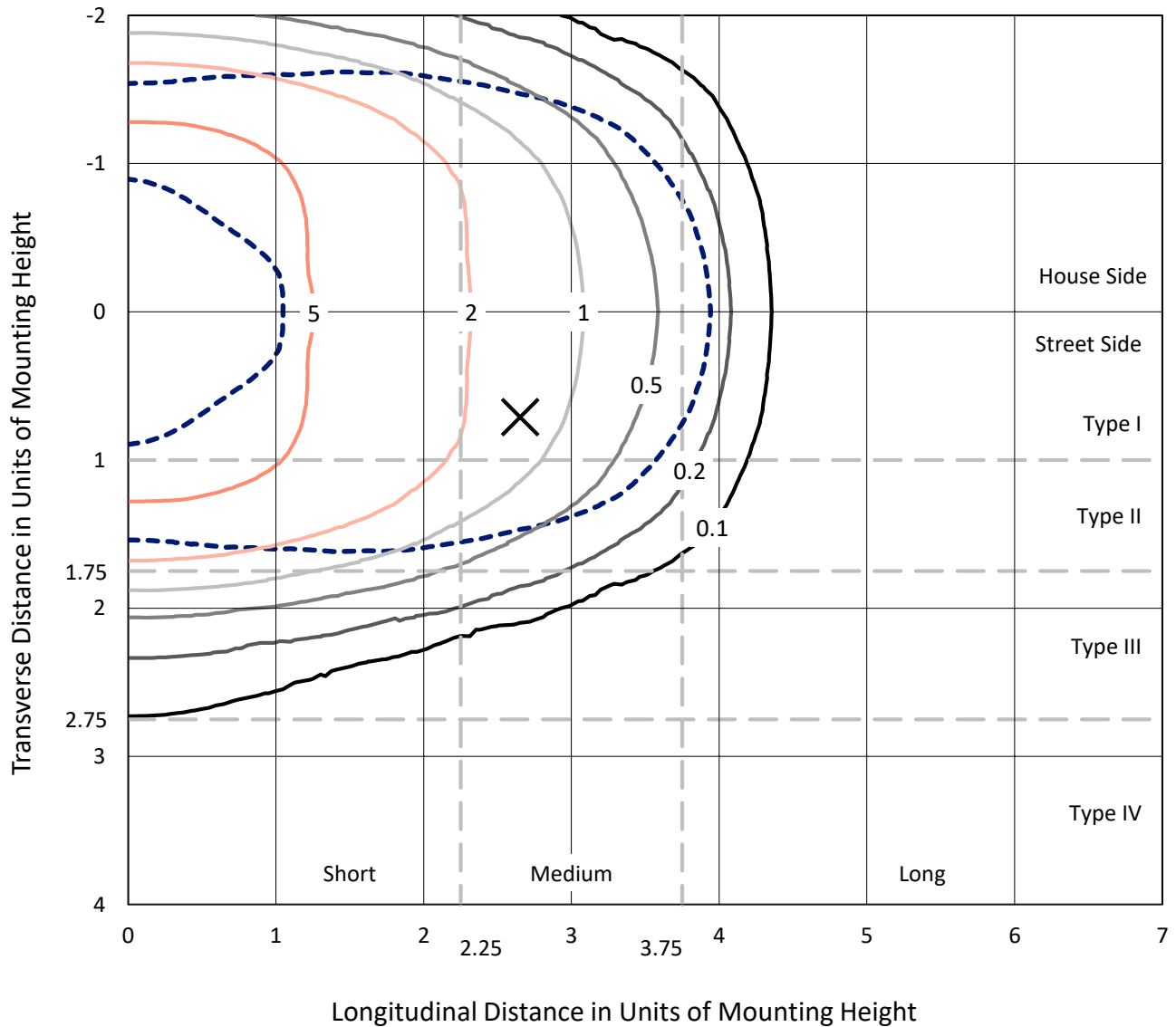
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

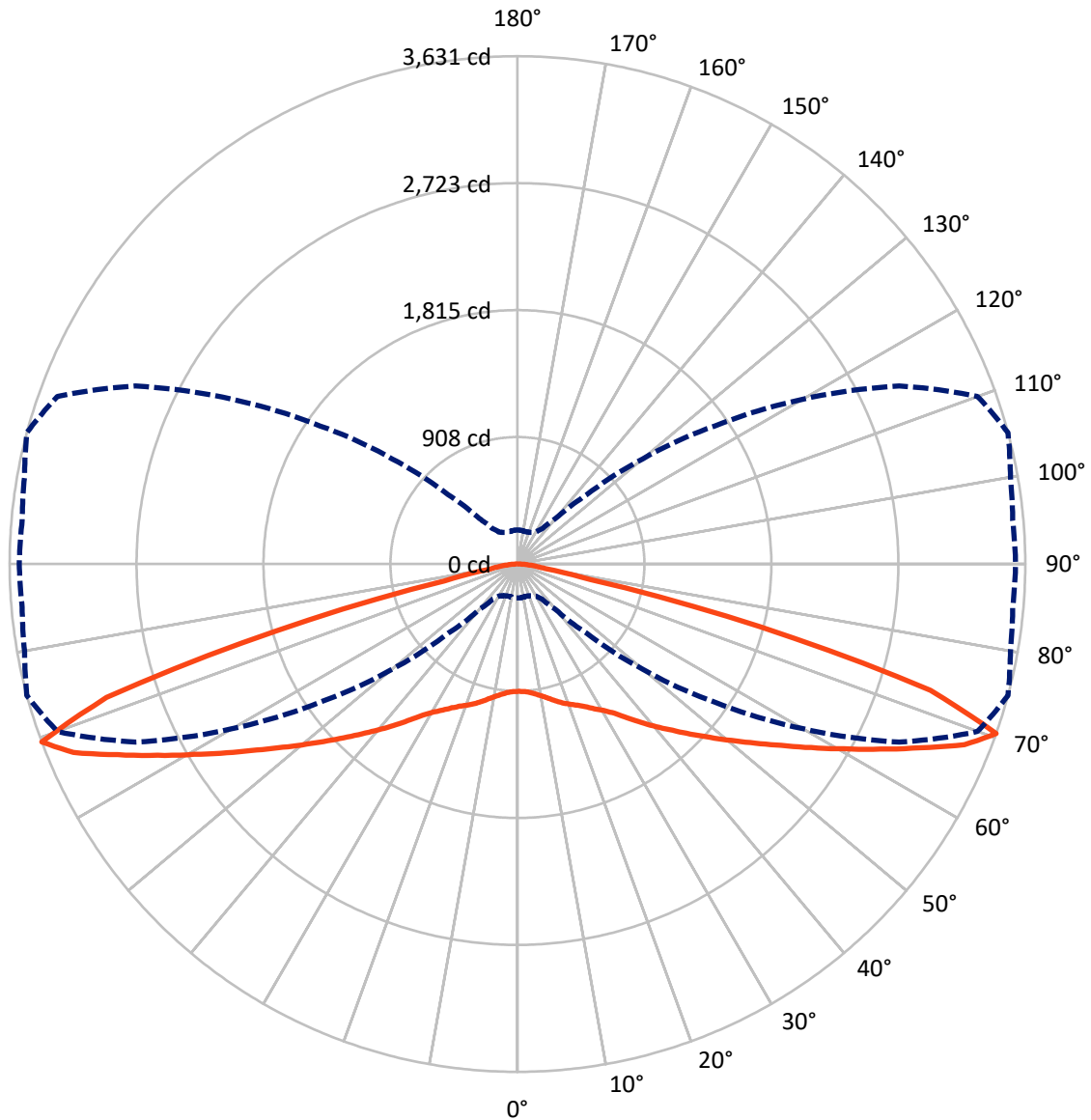
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.2 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4103.5	0.0	4103.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4103.5	0.0	4103.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	8207.0	0.0	8207.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.3	1.1
10°-20°	271.3	3.3
20°-30°	510.6	6.2
30°-40°	904.2	11.0
40°-50°	1512.1	18.4
50°-60°	2107.1	25.7
60°-70°	1954.0	23.8
70°-80°	778.7	9.5
80°-90°	81.9	1.0
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°	8207.0	100.0
0°-180°	8207.0	100.0



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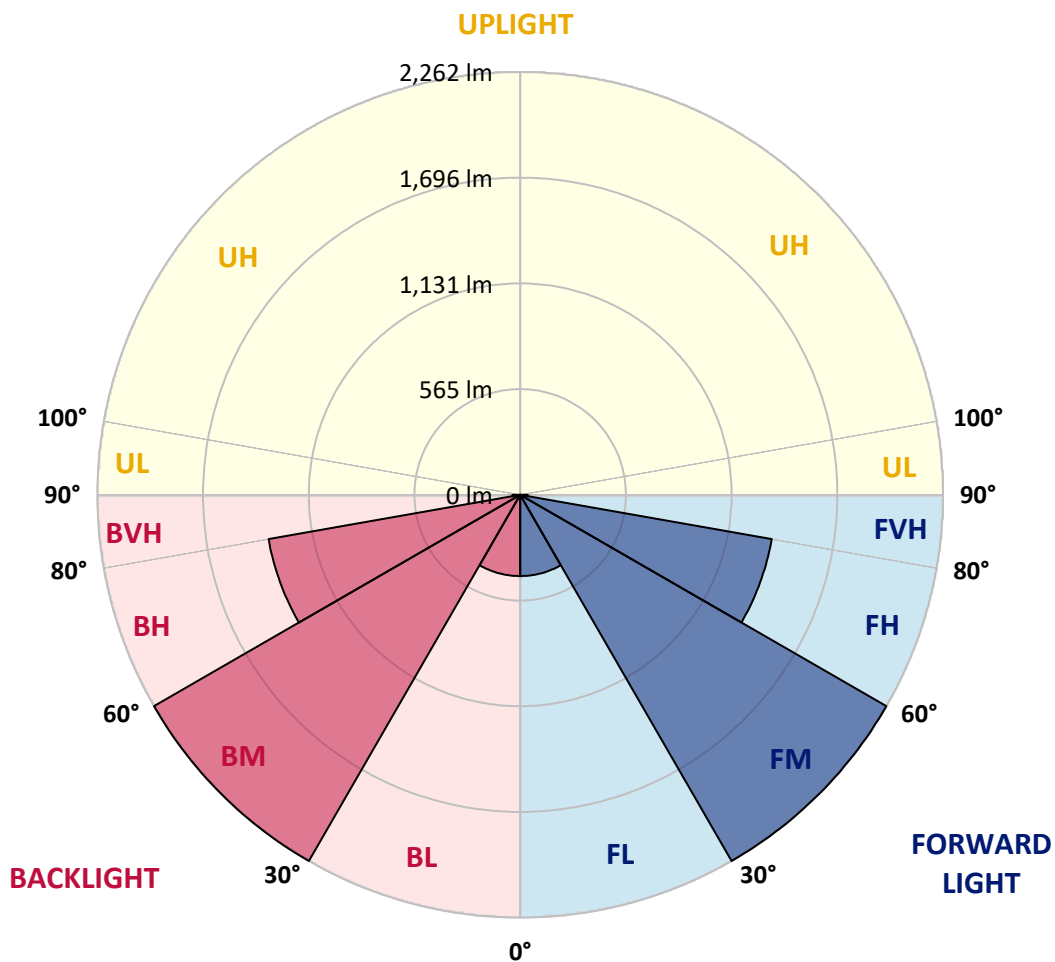
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	434.6	5.3			
FM	(30°-60°)	2261.6	27.6			
FH	(60°-80°)	1366.3	16.6			G1/1800
FVH	(80°-90°)	40.9	0.5			G1/100
BL	(0°-30°)	434.6	5.3	B1/500		
BM	(30°-60°)	2261.6	27.6	B2/2500		
BH	(60°-80°)	1366.3	16.6	B3/2500		G3/2500
BVH	(80°-90°)	40.9	0.5			G1/100
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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	910.3	910.3	910.3	910.3	910.3	910.3	910.3	910.3	910.3	910.3	910.3
2.5°	908.8	908.0	908.8	908.4	909.2	909.2	910.0	911.5	911.5	912.7	912.3
5°	899.9	899.5	900.7	901.8	903.0	905.3	907.6	911.1	913.8	915.8	917.7
7.5°	882.4	882.4	884.0	886.7	889.4	894.4	899.9	906.9	913.8	919.7	924.7
10°	868.1	868.8	870.8	875.4	880.1	887.9	895.2	905.3	915.0	924.7	932.5
12.5°	859.5	860.7	864.2	871.2	878.9	889.4	900.7	913.5	924.3	935.9	943.7
15°	862.3	863.0	868.1	876.6	886.7	899.9	915.0	930.1	942.9	955.3	965.8
17.5°	877.4	878.5	884.4	894.1	904.5	920.0	936.3	953.4	969.3	983.3	996.1
20°	904.5	905.7	913.1	923.5	935.9	951.9	968.1	986.0	1003.8	1018.6	1032.9
22.5°	942.9	944.9	951.9	962.3	976.3	993.4	1012.7	1031.8	1048.8	1062.4	1075.2
25°	993.4	997.6	1004.2	1015.9	1030.6	1046.1	1067.0	1086.4	1102.7	1115.5	1124.8
27.5°	1064.7	1070.5	1075.6	1086.8	1101.2	1115.9	1136.9	1153.9	1169.4	1181.9	1188.8
30°	1159.4	1165.2	1170.2	1181.1	1194.3	1208.2	1228.0	1243.1	1252.8	1262.5	1262.2
32.5°	1274.2	1280.4	1282.3	1294.0	1307.5	1322.7	1340.5	1349.0	1356.8	1358.0	1351.0
35°	1402.6	1405.7	1413.4	1428.9	1444.5	1456.9	1473.9	1478.2	1478.2	1472.4	1456.9
37.5°	1543.4	1545.3	1556.2	1573.6	1589.5	1602.3	1614.0	1622.5	1618.2	1605.8	1579.8
40°	1697.7	1701.2	1716.7	1732.3	1750.1	1762.1	1774.5	1776.1	1771.8	1753.6	1718.3
42.5°	1845.1	1848.2	1863.7	1888.2	1911.5	1928.1	1939.8	1942.1	1928.5	1911.8	1868.0
45°	1972.0	1980.1	2000.3	2029.0	2062.7	2086.4	2102.3	2108.9	2096.9	2075.1	2024.3
47.5°	2072.4	2080.6	2109.3	2143.4	2185.3	2223.7	2250.1	2264.0	2260.9	2244.6	2189.2
50°	2146.1	2153.9	2184.9	2226.8	2275.7	2323.4	2368.4	2401.7	2413.4	2406.0	2355.2
52.5°	2154.7	2167.5	2203.9	2260.2	2323.8	2388.9	2452.9	2509.6	2548.0	2553.8	2516.2
55°	2035.6	2048.4	2098.8	2182.2	2276.8	2383.1	2485.5	2580.9	2656.6	2695.4	2675.6
57.5°	1754.8	1777.6	1830.8	1928.5	2067.8	2226.8	2390.1	2559.6	2713.6	2816.4	2836.2
60°	1344.8	1371.9	1425.4	1529.4	1684.6	1874.2	2092.2	2342.8	2614.7	2845.9	2983.9
62.5°	862.6	888.2	944.5	1034.9	1161.3	1366.9	1600.8	1898.3	2263.7	2628.6	2957.6
65°	443.3	457.3	486.8	541.5	640.0	793.6	1003.4	1300.2	1717.9	2168.2	2643.8
67.5°	280.8	283.5	290.1	297.9	323.1	376.2	474.0	659.0	1002.7	1472.4	2029.0
70°	242.8	242.8	239.7	238.5	241.6	249.0	264.1	307.2	423.2	699.0	1170.2
72.5°	222.3	219.9	214.5	210.2	209.5	209.5	212.6	219.2	237.8	284.7	458.1
75°	204.8	198.2	190.8	185.8	183.9	181.9	181.5	182.7	186.6	193.9	218.8
77.5°	183.5	174.9	166.4	161.4	159.0	156.3	154.0	151.3	149.3	151.7	162.5
80°	157.9	148.2	141.6	138.5	136.1	132.3	127.2	122.6	118.3	117.5	124.1
82.5°	127.2	116.0	116.4	117.5	113.3	107.8	102.4	97.4	90.0	86.1	90.0
85°	102.8	97.0	94.3	101.6	95.4	87.3	78.7	69.8	58.2	48.9	53.1
87.5°	40.0	40.0	59.7	91.9	82.6	67.5	57.8	49.3	30.6	23.7	24.0
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°	910.3	910.3	910.3	910.3	910.3	910.3	910.3	910.3
2.5°	911.9	912.7	912.3	911.9	911.9	911.5	911.9	911.9
5°	918.9	920.8	920.8	921.6	921.6	922.0	922.4	922.0
7.5°	929.4	932.8	935.2	937.9	938.3	938.7	939.4	938.7
10°	939.8	946.8	951.9	956.9	959.2	960.0	960.8	960.8
12.5°	953.0	962.7	971.6	980.6	984.8	987.1	987.1	988.7
15°	974.7	984.4	994.9	1006.9	1014.3	1018.2	1019.3	1019.3
17.5°	1005.4	1013.9	1022.8	1034.5	1043.8	1048.8	1050.0	1049.6
20°	1041.1	1049.2	1054.2	1061.6	1069.8	1075.6	1077.1	1077.1
22.5°	1081.8	1086.4	1087.2	1089.5	1096.1	1103.9	1107.4	1108.2
25°	1126.8	1127.9	1124.8	1124.8	1129.1	1136.5	1140.0	1140.4
27.5°	1185.0	1179.1	1171.4	1168.7	1171.4	1179.9	1184.2	1185.7
30°	1257.5	1243.5	1225.7	1216.0	1214.4	1225.7	1233.4	1234.6
32.5°	1340.5	1320.3	1296.7	1276.9	1271.8	1278.8	1288.1	1287.8
35°	1439.0	1415.0	1386.3	1361.1	1349.4	1356.4	1369.6	1371.1
37.5°	1552.7	1521.3	1488.3	1456.5	1438.2	1440.2	1454.2	1458.8
40°	1679.5	1638.8	1597.3	1554.6	1528.6	1523.6	1540.6	1543.4
42.5°	1815.3	1762.9	1710.5	1657.8	1624.4	1616.7	1636.5	1635.3
45°	1959.9	1893.2	1831.9	1773.8	1734.2	1722.6	1738.9	1738.9
47.5°	2115.5	2033.3	1960.3	1894.4	1851.3	1834.7	1850.2	1851.3
50°	2280.3	2193.1	2107.3	2034.0	1982.4	1961.1	1981.3	1984.4
52.5°	2444.4	2359.5	2273.0	2189.2	2126.7	2100.7	2124.0	2134.1
55°	2610.8	2527.4	2444.8	2362.9	2288.9	2258.2	2283.0	2295.8
57.5°	2786.5	2709.3	2630.6	2548.0	2476.6	2428.9	2455.3	2472.3
60°	2992.5	2926.5	2844.7	2753.5	2681.4	2632.9	2648.0	2663.2
62.5°	3155.4	3181.0	3111.6	3006.0	2913.3	2851.3	2866.0	2881.9
65°	3076.6	3339.2	3400.9	3294.2	3165.9	3069.3	3063.1	3071.2
67.5°	2571.6	3081.7	3453.7	3555.3	3447.8	3313.6	3288.8	3300.8
70°	1720.2	2355.6	3011.9	3500.6	3630.5	3578.6	3554.1	3561.5
72.5°	826.2	1371.9	2043.3	2693.0	3088.7	3270.2	3328.4	3356.7
75°	302.2	544.6	984.8	1484.0	1791.6	2074.0	2258.2	2333.5
77.5°	182.3	219.9	314.6	473.6	536.4	600.4	575.6	588.0
80°	135.0	152.4	172.6	193.9	200.9	200.9	193.2	187.0
82.5°	94.6	105.9	115.6	127.2	130.3	124.5	102.4	81.5
85°	60.9	65.9	70.2	77.6	75.6	72.1	48.5	43.1
87.5°	27.9	31.8	33.4	36.8	35.3	33.7	24.0	20.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)