

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: P190859

Luminaire Tested: **GLEON-AF-01-LED-E1-5NQ-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190859
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-01-LED-E1-5NQ-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7213.8 lumens
Efficiency: N/A
Efficacy: 107.7 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

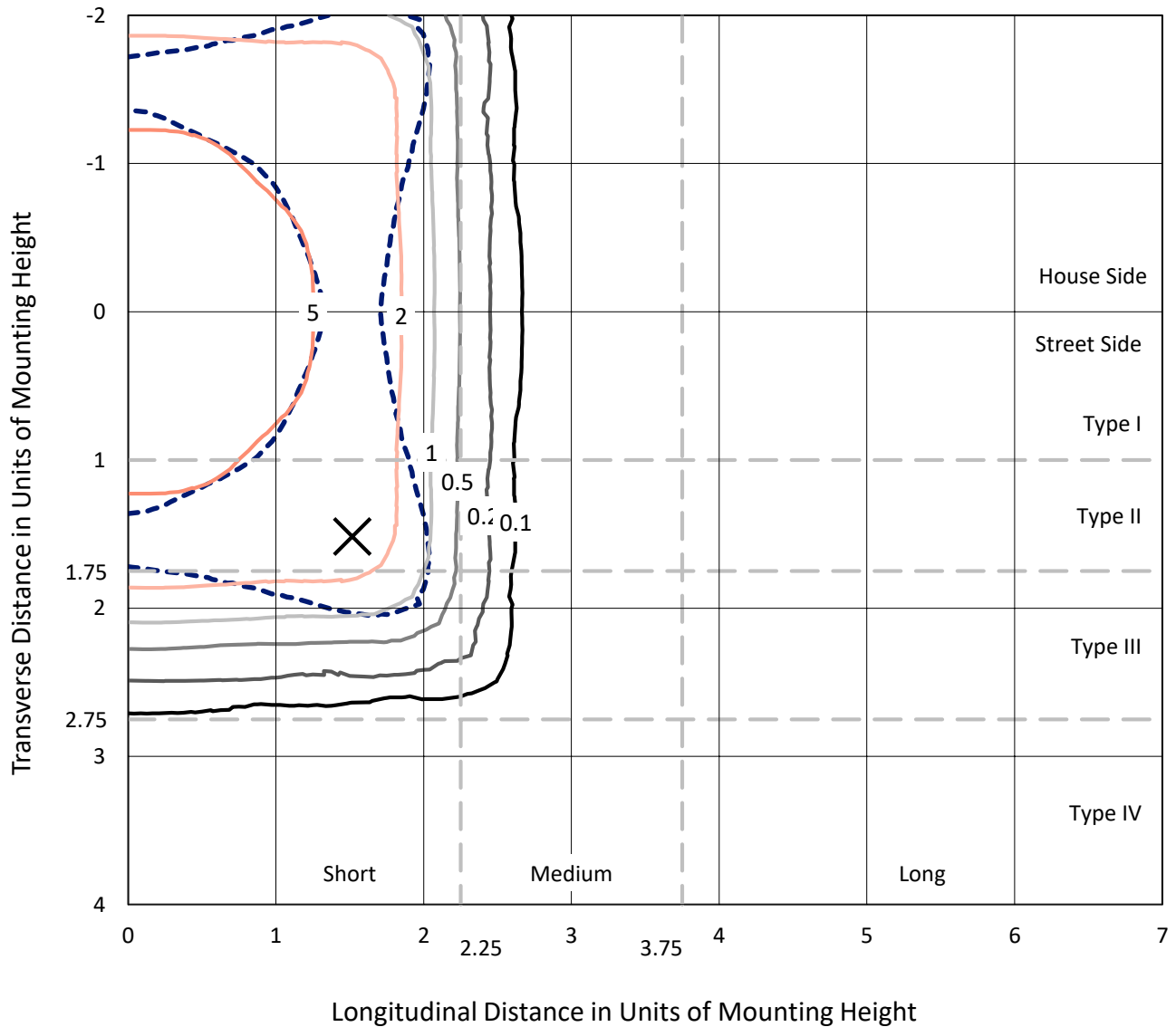
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P190859
 CATALOG NUMBER: GLEON-AF-01-LED-E1-5NQ-1200

Iso-Footcandle Lines of Horizontal Illumination

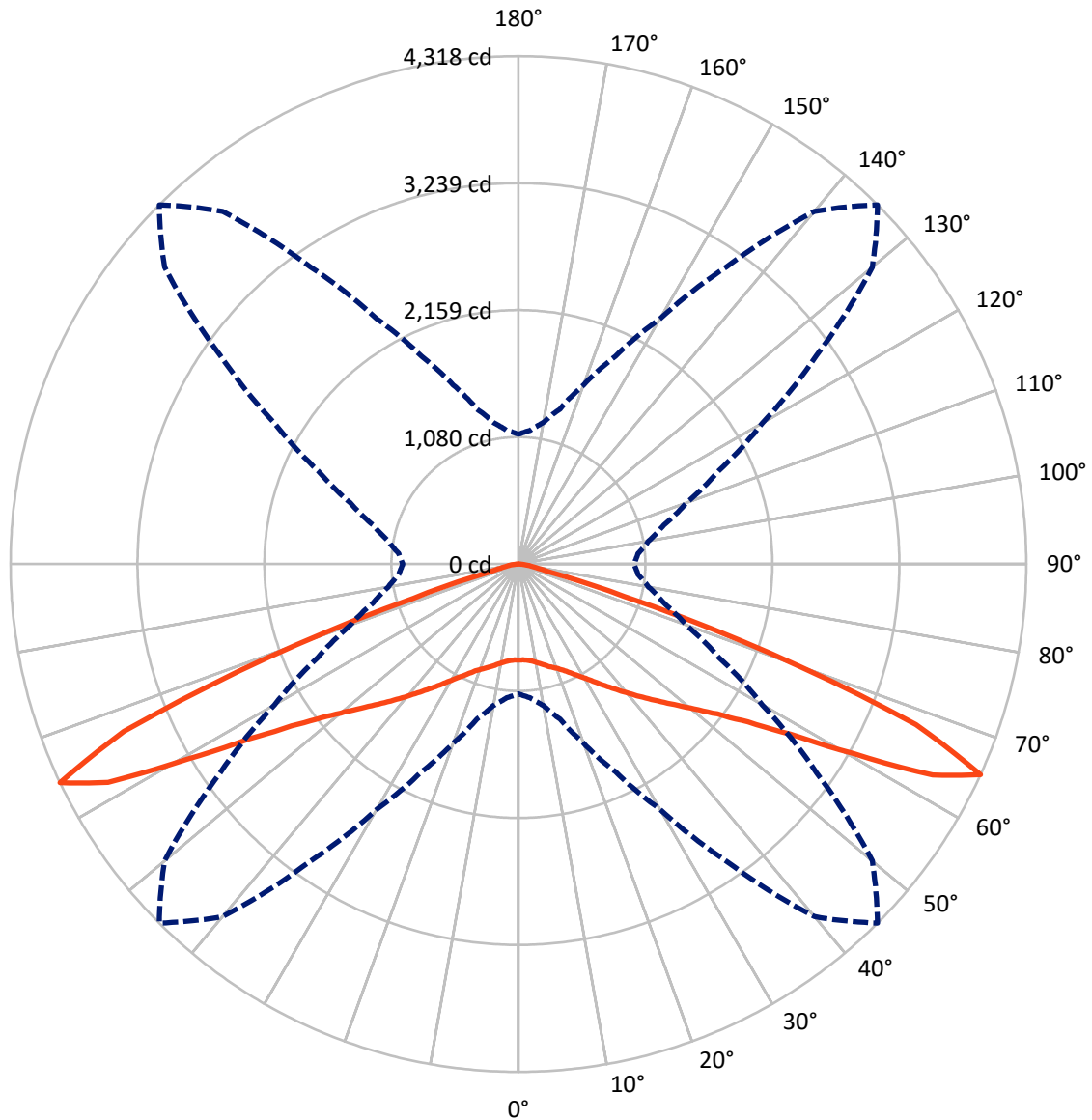
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.2 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: P190859
CATALOG NUMBER: GLEON-AF-01-LED-E1-5NQ-1200

Luminous Intensity Polar Plot



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

REPORT NUMBER: P190859

CATALOG NUMBER: GLEON-AF-01-LED-E1-5NQ-1200

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3606.9	0.0	3606.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3606.9	0.0	3606.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	7213.8	0.0	7213.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.6	1.1
10°-20°	255.2	3.5
20°-30°	477.1	6.6
30°-40°	806.9	11.2
40°-50°	1319.4	18.3
50°-60°	2098.0	29.1
60°-70°	1896.5	26.3
70°-80°	240.0	3.3
80°-90°	41.3	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°	7213.8	100.0
0°-180°	7213.8	100.0



REPORT NUMBER: P190859

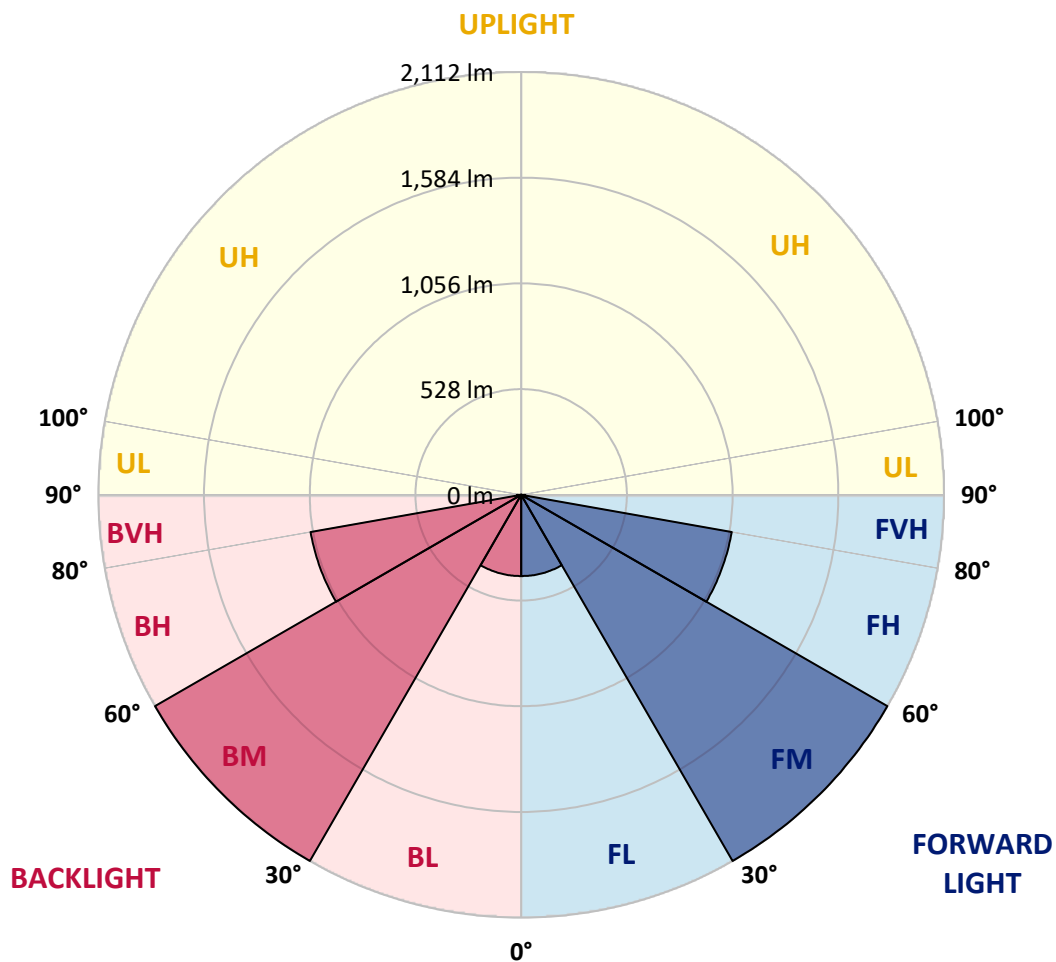
CATALOG NUMBER: GLEON-AF-01-LED-E1-5NQ-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	405.9	5.6			
FM	(30°-60°)	2112.1	29.3			
FH	(60°-80°)	1068.2	14.8			G1/1800
FVH	(80°-90°)	20.6	0.3			G1/100
BL	(0°-30°)	405.9	5.6	B1/500		
BM	(30°-60°)	2112.1	29.3	B2/2500		
BH	(60°-80°)	1068.2	14.8	B3/2500		G1/1800
BVH	(80°-90°)	20.6	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





REPORT NUMBER: P190859
 CATALOG NUMBER: GLEON-AF-01-LED-E1-5NQ-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	816.2	816.2	816.2	816.2	816.2	816.2	816.2	816.2	816.2	816.2	816.2
2.5°	816.9	817.6	818.3	817.6	818.3	817.2	816.6	817.6	816.6	815.6	816.2
5°	824.0	824.4	824.4	823.4	824.4	823.7	822.7	824.0	823.0	822.0	822.7
7.5°	835.9	837.2	836.2	835.1	835.9	835.1	834.5	834.8	834.5	833.5	833.8
10°	851.7	852.7	852.0	851.7	852.4	852.0	851.4	851.1	851.4	850.4	850.4
12.5°	870.9	870.6	870.3	870.6	871.7	871.7	871.3	871.7	872.4	872.7	872.0
15°	889.9	890.6	890.6	890.6	892.6	894.3	895.3	896.0	897.3	897.6	896.3
17.5°	913.6	913.6	913.2	913.6	915.5	918.3	919.3	920.7	922.0	923.0	921.4
20°	939.9	940.6	940.6	941.2	944.0	947.0	947.0	947.7	947.0	947.7	946.6
22.5°	972.0	974.1	974.1	974.4	977.0	980.8	979.8	980.8	979.1	980.4	979.1
25°	1013.8	1016.9	1016.3	1016.3	1018.2	1020.7	1021.0	1023.1	1022.6	1024.4	1023.4
27.5°	1061.2	1065.9	1067.2	1066.9	1068.3	1070.6	1071.3	1073.7	1072.4	1073.7	1073.0
30°	1118.0	1120.0	1122.7	1123.7	1125.3	1127.7	1127.7	1128.1	1126.4	1128.4	1129.4
32.5°	1176.7	1180.5	1183.1	1189.3	1192.2	1194.0	1193.7	1194.3	1192.7	1195.3	1197.4
35°	1254.4	1257.1	1261.5	1266.3	1270.3	1270.0	1269.0	1269.3	1269.3	1271.6	1273.7
37.5°	1348.0	1348.7	1354.5	1361.2	1363.2	1361.2	1355.1	1353.8	1350.7	1353.8	1357.1
40°	1447.1	1449.4	1460.9	1465.3	1466.3	1462.5	1453.8	1448.7	1442.0	1445.6	1450.4
42.5°	1550.7	1555.5	1565.9	1573.7	1577.1	1574.7	1562.6	1554.8	1546.0	1548.0	1552.7
45°	1665.6	1671.4	1686.2	1693.7	1700.0	1696.4	1684.5	1672.7	1658.8	1659.8	1667.3
47.5°	1793.9	1799.8	1819.0	1831.5	1834.9	1834.2	1821.1	1804.8	1785.9	1785.3	1791.6
50°	1937.9	1943.7	1967.6	1986.9	1996.7	1995.7	1980.1	1957.2	1934.2	1934.5	1942.7
52.5°	2078.4	2085.6	2110.6	2143.7	2162.9	2176.7	2167.3	2145.7	2117.6	2118.3	2125.8
55°	2210.2	2222.1	2250.8	2295.7	2331.5	2370.4	2381.5	2380.8	2363.9	2368.6	2376.1
57.5°	2274.1	2291.6	2335.9	2406.9	2479.8	2558.9	2625.8	2675.8	2697.1	2729.1	2721.8
60°	2153.1	2181.1	2246.4	2350.7	2495.1	2659.9	2836.6	3009.2	3156.5	3267.7	3203.9
62.5°	1763.0	1799.4	1878.4	2012.2	2230.5	2494.4	2832.6	3240.7	3685.3	3953.5	3762.0
65°	1103.0	1140.9	1221.3	1364.6	1620.0	1948.0	2406.9	3083.3	3914.0	4318.4	3928.5
67.5°	430.0	450.7	494.3	585.8	777.7	1069.6	1530.1	2297.8	3291.3	3645.8	3230.2
70°	215.5	217.6	225.7	242.5	283.8	368.6	560.9	1065.2	1887.5	2279.9	1819.6
72.5°	155.8	156.1	160.1	167.6	180.8	199.7	236.2	326.0	613.9	938.3	575.4
75°	119.3	120.6	123.0	127.1	134.1	143.6	156.7	187.8	232.8	270.0	227.0
77.5°	91.9	94.6	96.3	100.0	104.4	110.8	114.6	126.3	147.0	154.8	152.4
80°	70.0	72.3	76.0	79.1	82.1	85.1	83.8	89.2	100.0	106.4	103.0
82.5°	44.6	47.3	58.1	60.8	62.2	64.2	61.8	62.2	66.9	71.0	66.9
85°	28.7	30.4	36.8	40.2	40.5	41.9	40.9	38.6	38.6	35.1	39.5
87.5°	13.2	13.5	16.6	19.6	20.3	18.2	17.9	17.2	13.8	13.2	14.2
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: P190859
 CATALOG NUMBER: GLEON-AF-01-LED-E1-5NQ-1200

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	816.2	816.2	816.2	816.2	816.2	816.2	816.2	816.2
2.5°	815.9	816.6	816.9	818.0	818.3	818.3	818.6	819.3
5°	822.4	823.4	823.7	825.0	825.4	825.0	825.7	826.0
7.5°	833.8	835.5	836.2	837.5	836.6	837.9	838.2	838.2
10°	850.7	852.4	852.7	854.1	853.4	854.1	854.1	853.4
12.5°	873.0	873.4	872.4	873.4	872.0	872.7	871.7	870.9
15°	897.6	896.6	894.3	894.3	892.2	892.6	892.2	891.9
17.5°	921.7	919.6	917.9	917.3	915.5	915.2	914.2	914.2
20°	948.0	947.0	946.0	944.6	943.0	941.2	940.9	941.6
22.5°	979.8	979.5	979.5	978.8	976.4	974.7	973.6	973.6
25°	1022.3	1019.3	1019.3	1019.0	1017.9	1016.9	1014.9	1015.9
27.5°	1070.3	1068.7	1070.0	1069.6	1068.7	1068.7	1067.2	1067.2
30°	1129.4	1128.7	1130.8	1129.1	1125.8	1125.3	1124.0	1122.4
32.5°	1197.7	1197.1	1200.0	1198.0	1192.7	1189.6	1186.8	1185.5
35°	1273.7	1274.1	1277.8	1276.4	1270.3	1268.3	1263.5	1262.9
37.5°	1356.8	1362.3	1368.6	1370.0	1364.9	1363.6	1358.5	1355.8
40°	1454.4	1461.6	1471.3	1473.7	1468.3	1467.3	1460.2	1456.5
42.5°	1558.5	1570.6	1582.8	1584.9	1579.4	1574.0	1567.3	1564.6
45°	1674.8	1689.3	1705.2	1709.1	1701.1	1694.6	1685.9	1685.9
47.5°	1805.1	1823.4	1841.3	1852.5	1845.0	1838.2	1827.8	1821.1
50°	1959.2	1984.2	2007.5	2019.0	2007.1	1994.3	1976.1	1970.0
52.5°	2152.5	2179.5	2199.8	2193.7	2175.4	2157.5	2137.6	2129.5
55°	2399.1	2408.2	2408.2	2385.2	2348.8	2318.7	2287.2	2276.8
57.5°	2707.5	2672.5	2618.3	2549.8	2463.6	2388.6	2338.0	2313.9
60°	3070.1	2901.1	2710.2	2522.7	2368.6	2241.7	2166.3	2131.8
62.5°	3311.6	2869.7	2487.3	2186.3	1964.6	1811.5	1707.5	1667.0
65°	3095.0	2393.3	1881.2	1521.0	1279.4	1123.7	1020.7	982.9
67.5°	2267.0	1499.7	1001.8	717.9	526.0	419.6	377.4	359.8
70°	1017.6	528.0	323.7	252.7	217.9	200.0	192.2	189.6
72.5°	306.8	222.0	187.2	168.9	155.1	146.3	139.8	139.2
75°	185.2	154.1	136.9	126.0	117.2	110.2	106.8	105.8
77.5°	129.4	113.1	105.1	97.3	90.5	85.1	82.1	79.7
80°	90.8	83.1	79.4	75.0	70.6	65.6	61.2	59.1
82.5°	60.8	59.1	59.1	56.5	52.7	48.0	39.2	37.1
85°	39.2	38.9	39.5	38.6	35.8	30.8	25.4	23.9
87.5°	18.2	18.6	20.6	20.3	19.6	16.3	12.9	12.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)