

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: P193370

Luminaire Tested: **GLEON-AF-02-LED-E1-5NQ-8030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193370  
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-8030-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6754 lumens  
Efficiency: N/A  
Efficacy: 102.3 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): 66  
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

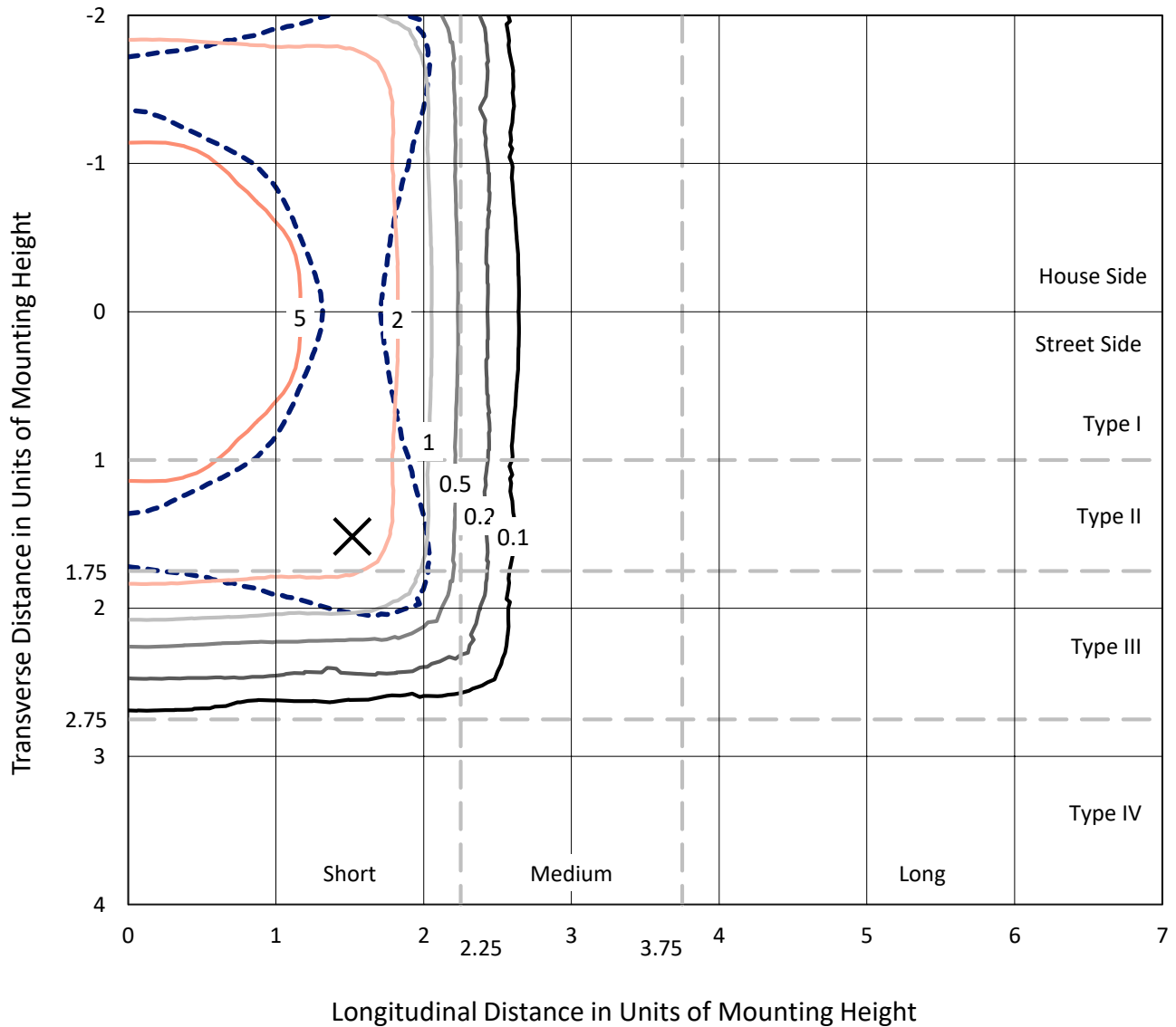


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

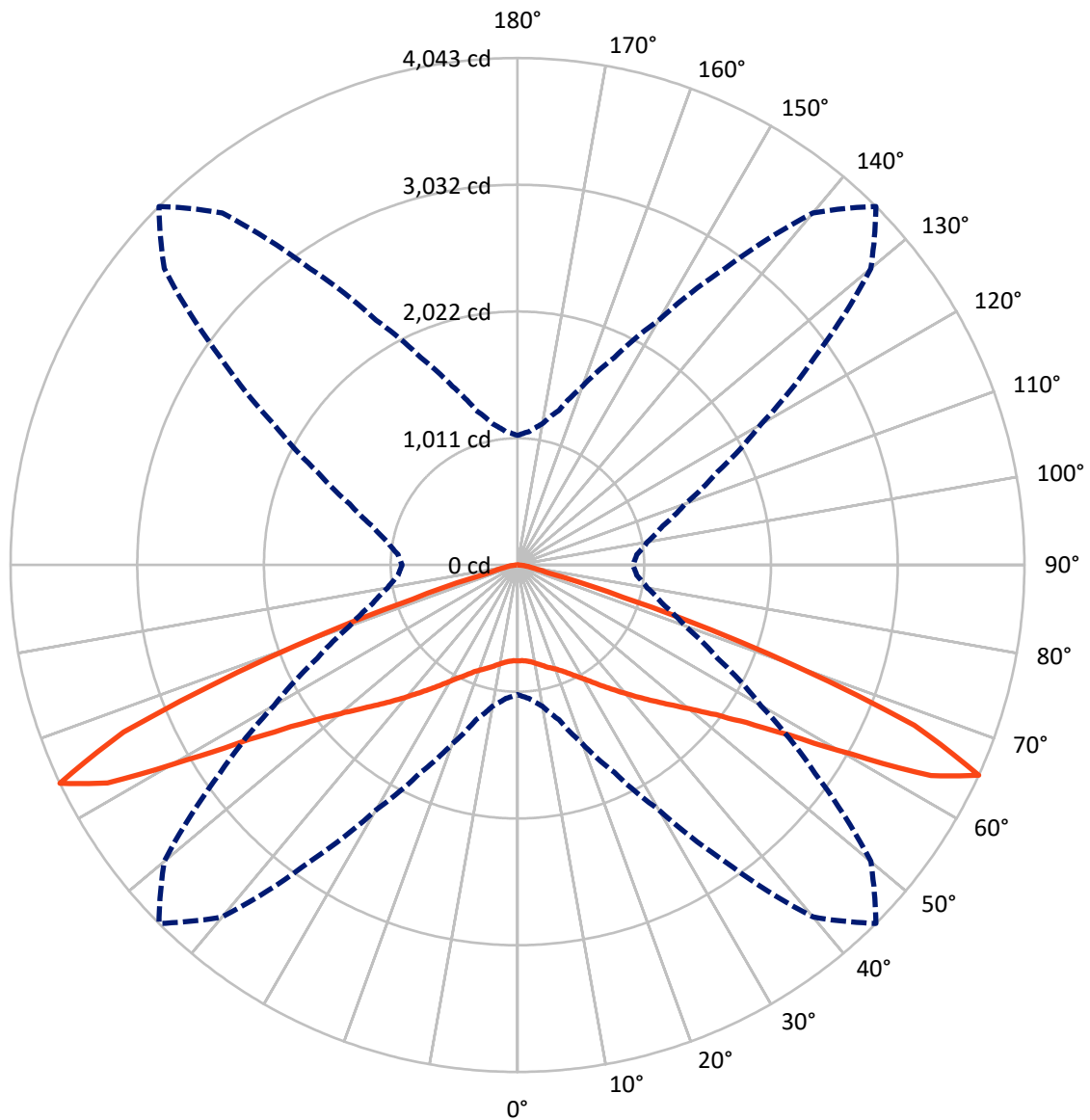


Based on 10 foot mounting height. Maximum calculated value = 7.7 fc  
 Type V - Short - Full Cutoff

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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	3377.0	0.0	3377.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3377.0	0.0	3377.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	6754.0	0.0	6754.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.5	1.1
10°-20°	238.9	3.5
20°-30°	446.7	6.6
30°-40°	755.5	11.2
40°-50°	1235.3	18.3
50°-60°	1964.3	29.1
60°-70°	1775.6	26.3
70°-80°	224.7	3.3
80°-90°	38.7	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°	6754.0	100.0
0°-180°	6754.0	100.0



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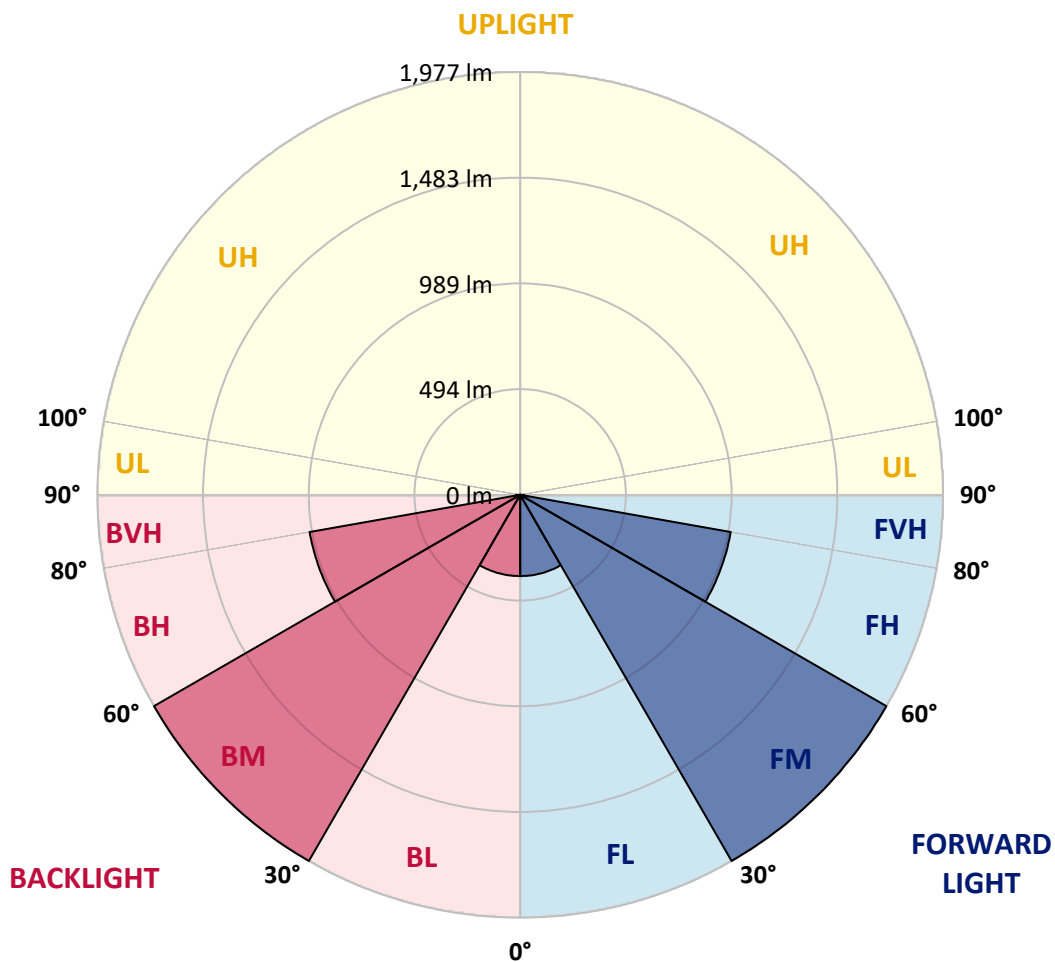
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	380.0	5.6			
FM	(30°-60°)	1977.5	29.3			
FH	(60°-80°)	1000.1	14.8			G1/1800
FVH	(80°-90°)	19.3	0.3			G1/100
BL	(0°-30°)	380.0	5.6	B1/500		
BM	(30°-60°)	1977.5	29.3	B2/2500		
BH	(60°-80°)	1000.1	14.8	B3/2500		G1/1800
BVH	(80°-90°)	19.3	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°	764.2	764.2	764.2	764.2	764.2	764.2	764.2	764.2	764.2	764.2	764.2
2.5°	764.9	765.5	766.1	765.5	766.1	765.2	764.5	765.5	764.5	763.6	764.2
5°	771.5	771.8	771.8	770.9	771.8	771.2	770.2	771.5	770.5	769.6	770.2
7.5°	782.6	783.8	782.9	781.9	782.6	781.9	781.3	781.6	781.3	780.4	780.7
10°	797.4	798.4	797.7	797.4	798.1	797.7	797.1	796.8	797.1	796.2	796.2
12.5°	815.5	815.1	814.8	815.1	816.1	816.1	815.8	816.1	816.7	817.0	816.4
15°	833.2	833.8	833.8	833.8	835.7	837.3	838.2	838.9	840.1	840.5	839.2
17.5°	855.3	855.3	855.0	855.3	857.2	859.7	860.7	862.0	863.2	864.2	862.6
20°	880.0	880.6	880.6	881.3	883.8	886.6	886.6	887.3	886.6	887.3	886.3
22.5°	910.0	911.9	911.9	912.3	914.8	918.3	917.3	918.3	916.7	917.9	916.7
25°	949.3	952.1	951.5	951.5	953.4	955.6	955.9	957.8	957.5	959.1	958.1
27.5°	993.5	998.0	999.2	998.9	1000.2	1002.4	1003.0	1005.3	1004.0	1005.3	1004.6
30°	1046.7	1048.6	1051.1	1052.1	1053.6	1055.9	1055.9	1056.2	1054.6	1056.5	1057.4
32.5°	1101.7	1105.2	1107.7	1113.4	1116.3	1117.9	1117.5	1118.2	1116.6	1119.1	1121.0
35°	1174.5	1177.0	1181.1	1185.6	1189.3	1189.0	1188.1	1188.4	1188.4	1190.6	1192.5
37.5°	1262.1	1262.7	1268.1	1274.4	1276.3	1274.4	1268.7	1267.5	1264.6	1267.5	1270.6
40°	1354.8	1357.0	1367.7	1371.9	1372.8	1369.3	1361.1	1356.4	1350.0	1353.5	1357.9
42.5°	1451.9	1456.3	1466.1	1473.4	1476.6	1474.3	1463.0	1455.7	1447.5	1449.4	1453.8
45°	1559.4	1564.8	1578.7	1585.7	1591.7	1588.2	1577.2	1566.1	1553.1	1554.1	1561.0
47.5°	1679.6	1685.0	1703.0	1714.7	1717.9	1717.3	1704.9	1689.8	1672.0	1671.4	1677.4
50°	1814.4	1819.8	1842.2	1860.3	1869.4	1868.5	1853.9	1832.4	1810.9	1811.2	1818.8
52.5°	1946.0	1952.6	1976.0	2007.0	2025.1	2038.0	2029.2	2008.9	1982.7	1983.3	1990.3
55°	2069.3	2080.4	2107.3	2149.4	2182.9	2219.3	2229.7	2229.1	2213.3	2217.7	2224.6
57.5°	2129.1	2145.6	2187.0	2253.4	2321.8	2395.8	2458.4	2505.2	2525.1	2555.2	2548.2
60°	2015.9	2042.1	2103.2	2200.9	2336.0	2490.4	2655.8	2817.4	2955.3	3059.4	2999.6
62.5°	1650.5	1684.7	1758.7	1884.0	2088.3	2335.4	2652.0	3034.1	3450.4	3701.5	3522.2
65°	1032.8	1068.2	1143.5	1277.6	1516.7	1823.9	2253.4	2886.7	3664.5	4043.1	3678.1
67.5°	402.7	422.0	462.8	548.5	728.2	1001.5	1432.6	2151.3	3081.5	3413.4	3024.3
70°	201.8	203.7	211.3	227.1	265.7	345.1	525.1	997.3	1767.3	2134.5	1703.7
72.5°	145.8	146.1	149.9	156.9	169.2	186.9	221.1	305.2	574.7	878.4	538.7
75°	111.7	112.9	115.1	118.9	125.6	134.4	146.8	175.9	217.9	252.7	212.6
77.5°	86.0	88.6	90.1	93.6	97.7	103.8	107.2	118.3	137.6	144.9	142.7
80°	65.5	67.7	71.2	74.0	76.9	79.7	78.4	83.5	93.6	99.6	96.5
82.5°	41.8	44.3	54.4	56.9	58.2	60.1	57.9	58.2	62.6	66.4	62.6
85°	26.9	28.5	34.5	37.6	38.0	39.2	38.3	36.1	36.1	32.9	37.0
87.5°	12.3	12.7	15.5	18.3	19.0	17.1	16.8	16.1	13.0	12.3	13.3
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°	764.2	764.2	764.2	764.2	764.2	764.2	764.2	764.2
2.5°	763.9	764.5	764.9	765.8	766.1	766.1	766.4	767.1
5°	769.9	770.9	771.2	772.4	772.8	772.4	773.1	773.4
7.5°	780.7	782.2	782.9	784.1	783.2	784.5	784.8	784.8
10°	796.5	798.1	798.4	799.6	799.0	799.6	799.6	799.0
12.5°	817.4	817.7	816.7	817.7	816.4	817.0	816.1	815.5
15°	840.5	839.5	837.3	837.3	835.4	835.7	835.4	835.1
17.5°	862.9	861.0	859.4	858.8	857.2	856.9	856.0	856.0
20°	887.6	886.6	885.7	884.4	882.8	881.3	880.9	881.6
22.5°	917.3	917.0	917.0	916.4	914.2	912.6	911.6	911.6
25°	957.2	954.3	954.3	954.0	953.1	952.1	950.2	951.2
27.5°	1002.1	1000.5	1001.8	1001.5	1000.5	1000.5	999.2	999.2
30°	1057.4	1056.8	1058.7	1057.1	1054.0	1053.6	1052.4	1050.8
32.5°	1121.3	1120.7	1123.6	1121.7	1116.6	1113.7	1111.2	1110.0
35°	1192.5	1192.8	1196.3	1195.0	1189.3	1187.4	1183.0	1182.4
37.5°	1270.3	1275.4	1281.4	1282.7	1277.9	1276.7	1271.9	1269.4
40°	1361.7	1368.4	1377.6	1379.8	1374.7	1373.8	1367.1	1363.6
42.5°	1459.2	1470.6	1481.9	1483.8	1478.8	1473.7	1467.4	1464.9
45°	1568.0	1581.6	1596.4	1600.2	1592.6	1586.6	1578.4	1578.4
47.5°	1690.1	1707.2	1723.9	1734.4	1727.4	1721.1	1711.3	1704.9
50°	1834.3	1857.7	1879.5	1890.3	1879.2	1867.2	1850.1	1844.4
52.5°	2015.2	2040.6	2059.5	2053.8	2036.8	2020.0	2001.3	1993.7
55°	2246.2	2254.7	2254.7	2233.2	2199.0	2170.9	2141.5	2131.7
57.5°	2535.0	2502.1	2451.4	2387.2	2306.6	2236.4	2188.9	2166.4
60°	2874.4	2716.2	2537.5	2361.9	2217.7	2098.8	2028.2	1996.0
62.5°	3100.5	2686.8	2328.7	2046.9	1839.4	1696.1	1598.7	1560.7
65°	2897.8	2240.8	1761.2	1424.1	1197.9	1052.1	955.6	920.2
67.5°	2122.5	1404.1	937.9	672.2	492.5	392.9	353.3	336.9
70°	952.7	494.4	303.0	236.6	204.0	187.3	180.0	177.5
72.5°	287.2	207.8	175.2	158.2	145.2	137.0	131.0	130.3
75°	173.3	144.2	128.1	118.0	109.8	103.1	100.0	99.0
77.5°	121.1	106.0	98.4	91.1	84.8	79.7	76.9	74.7
80°	85.1	77.8	74.3	70.2	66.1	61.4	57.3	55.4
82.5°	56.9	55.4	55.4	52.8	49.3	44.9	36.7	34.8
85°	36.7	36.4	37.0	36.1	33.5	28.8	23.7	22.5
87.5°	17.1	17.4	19.3	19.0	18.3	15.2	12.0	11.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)