

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: P299336

Luminaire Tested: **GLNA-AF-01-LED-E1-5NQ-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P299336  
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: GLNA-AF-01-LED-E1-5NQ-7030  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II  
w/Spill Control OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6197.1 lumens  
Efficiency: N/A  
Efficacy: 105.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B2 - U0 - G1

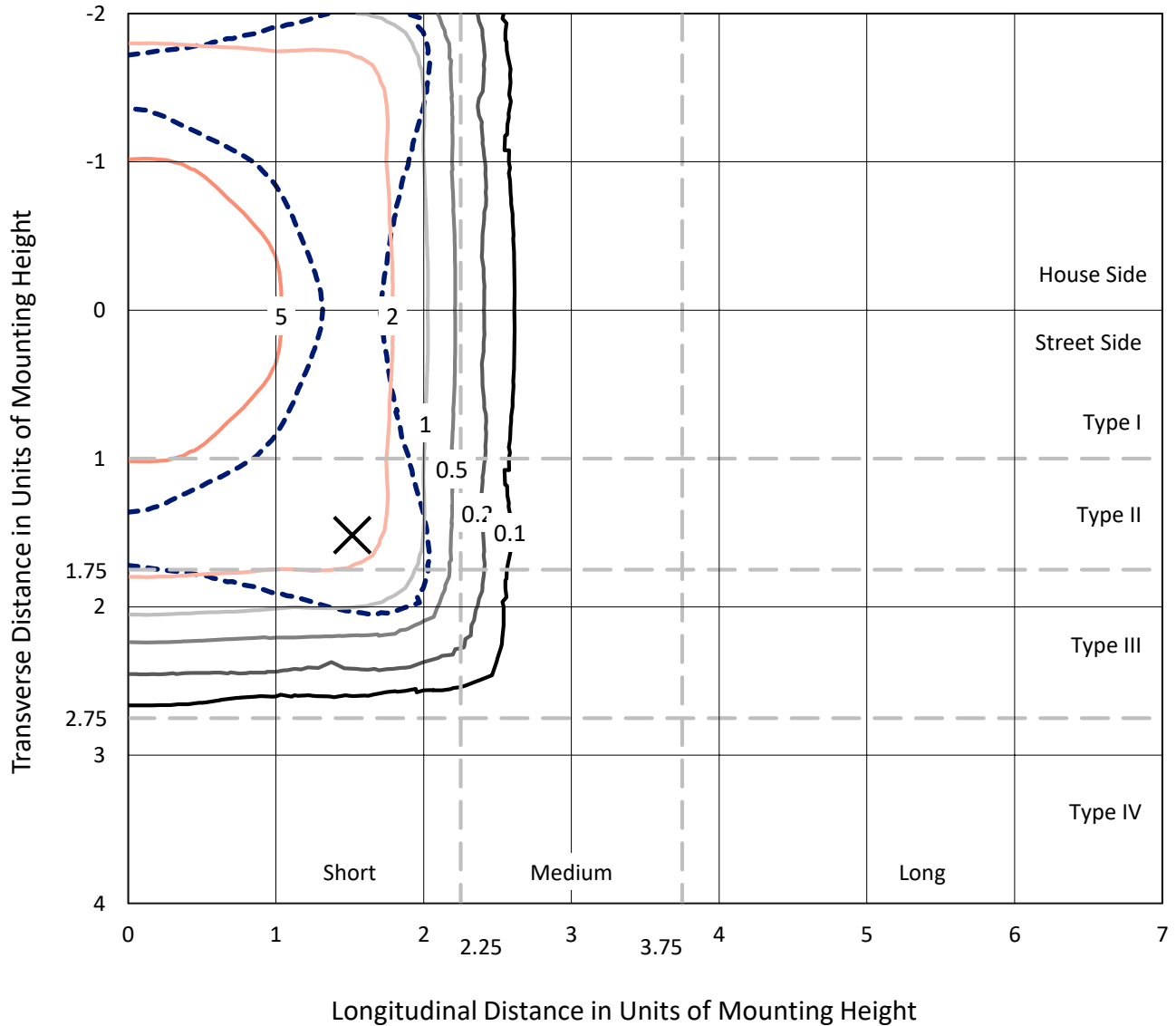
Input Watts (W): 59  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

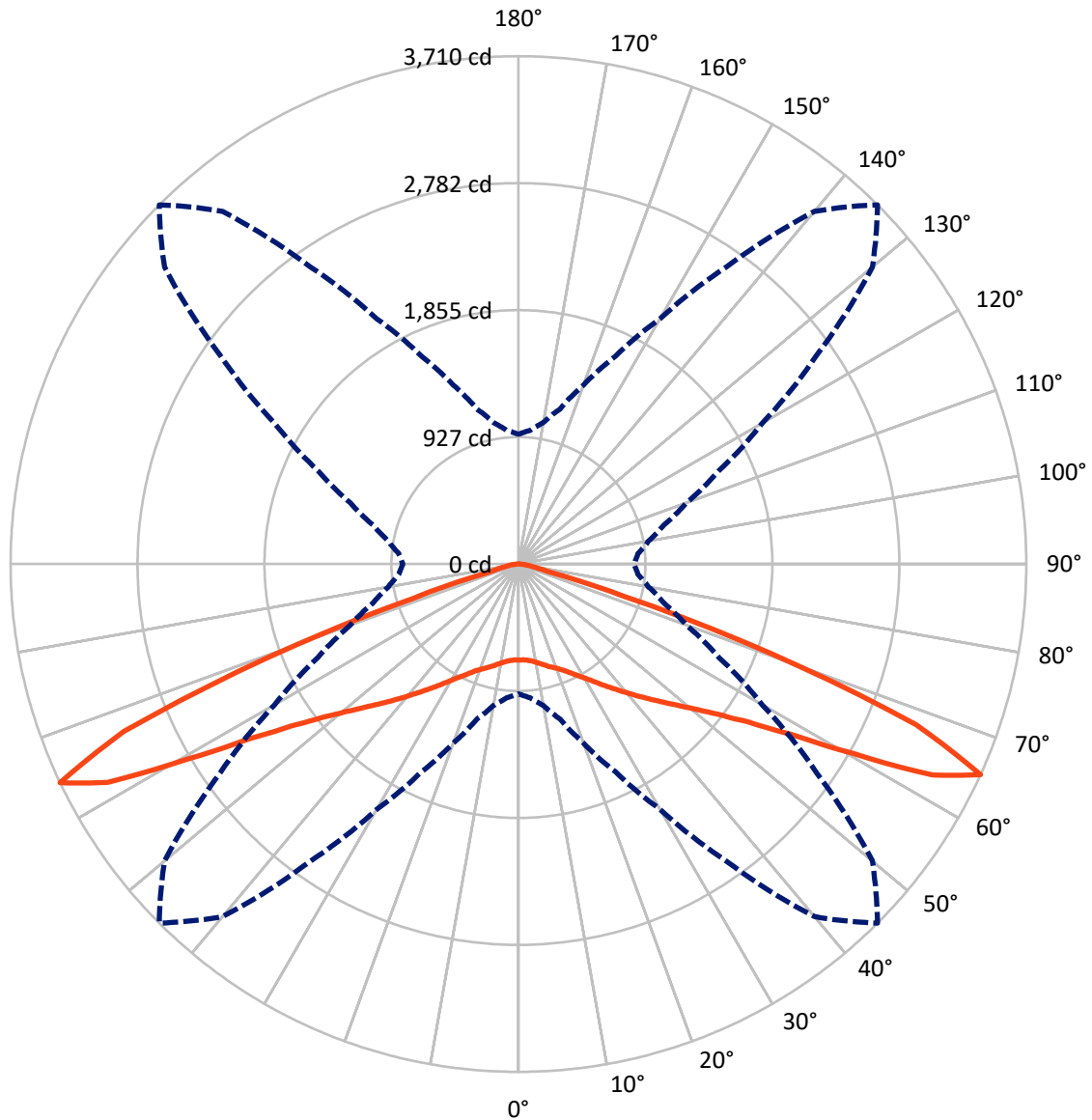
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7 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	3098.5	0.0	3098.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3098.5	0.0	3098.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	6197.1	0.0	6197.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.3	1.1
10°-20°	219.2	3.5
20°-30°	409.8	6.6
30°-40°	693.2	11.2
40°-50°	1133.4	18.3
50°-60°	1802.3	29.1
60°-70°	1629.2	26.3
70°-80°	206.2	3.3
80°-90°	35.5	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°	6197.1	100.0
0°-180°	6197.1	100.0



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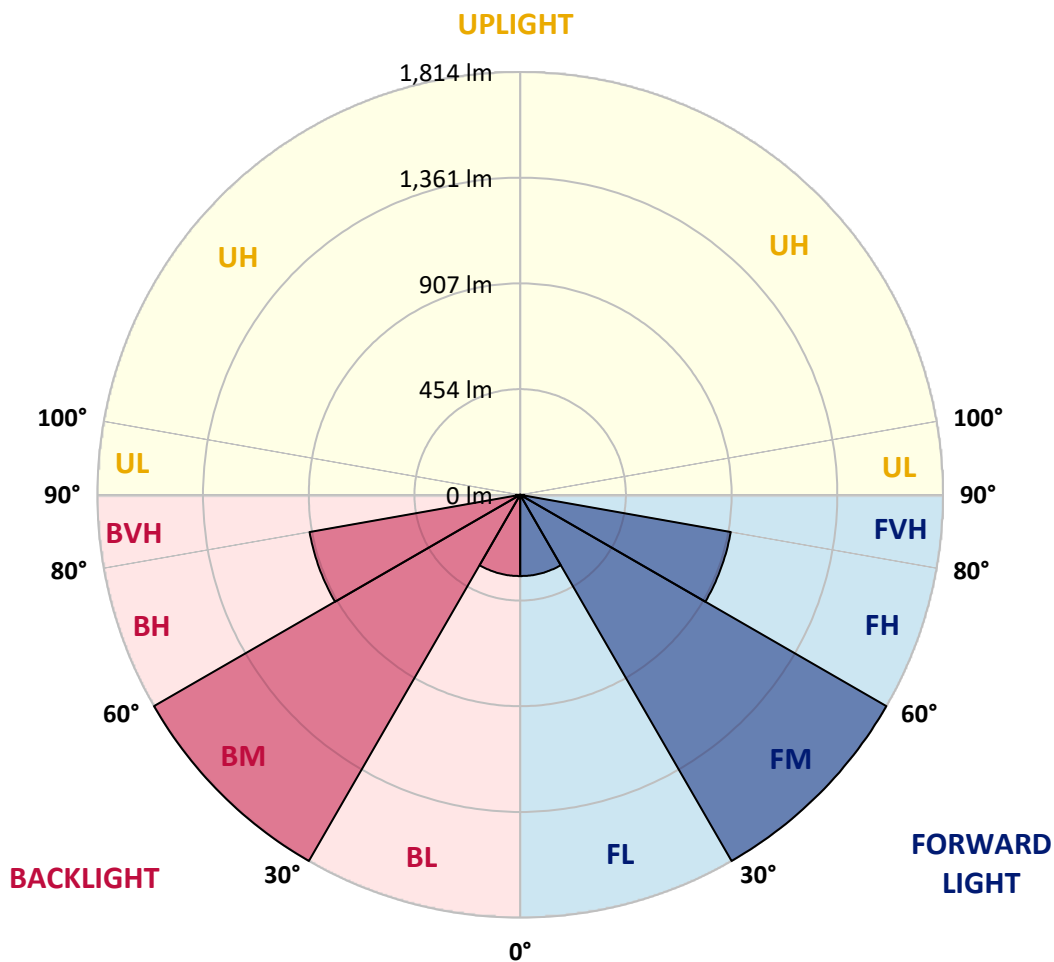
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	348.7	5.6			
FM	(30°-60°)	1814.4	29.3			
FH	(60°-80°)	917.7	14.8			G1/1800
FVH	(80°-90°)	17.7	0.3			G1/100
BL	(0°-30°)	348.7	5.6	B1/500		
BM	(30°-60°)	1814.4	29.3	B2/2500		
BH	(60°-80°)	917.7	14.8	B2/1000		G1/1800
BVH	(80°-90°)	17.7	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	701.2	701.2	701.2	701.2	701.2	701.2	701.2	701.2	701.2	701.2	701.2
2.5°	701.8	702.4	702.9	702.4	702.9	702.1	701.5	702.4	701.5	700.6	701.2
5°	707.9	708.2	708.2	707.3	708.2	707.6	706.7	707.9	707.0	706.1	706.7
7.5°	718.0	719.2	718.3	717.5	718.0	717.5	716.9	717.2	716.9	716.0	716.3
10°	731.7	732.5	732.0	731.7	732.3	732.0	731.4	731.1	731.4	730.5	730.5
12.5°	748.2	747.9	747.6	747.9	748.8	748.8	748.5	748.8	749.4	749.7	749.1
15°	764.5	765.1	765.1	765.1	766.8	768.2	769.1	769.7	770.9	771.1	770.0
17.5°	784.8	784.8	784.5	784.8	786.5	788.9	789.7	790.9	792.0	792.9	791.5
20°	807.4	808.0	808.0	808.6	810.9	813.5	813.5	814.1	813.5	814.1	813.2
22.5°	835.0	836.7	836.7	837.0	839.4	842.5	841.7	842.5	841.1	842.3	841.1
25°	871.0	873.6	873.0	873.0	874.8	876.8	877.1	878.8	878.5	880.0	879.1
27.5°	911.6	915.7	916.8	916.6	917.7	919.7	920.3	922.4	921.2	922.4	921.8
30°	960.4	962.1	964.4	965.3	966.8	968.8	968.8	969.1	967.6	969.4	970.2
32.5°	1010.9	1014.1	1016.4	1021.6	1024.2	1025.7	1025.4	1026.0	1024.5	1026.8	1028.6
35°	1077.6	1080.0	1083.7	1087.8	1091.3	1091.0	1090.1	1090.4	1090.4	1092.4	1094.2
37.5°	1158.0	1158.6	1163.5	1169.3	1171.1	1169.3	1164.1	1163.0	1160.3	1163.0	1165.9
40°	1243.1	1245.1	1255.0	1258.7	1259.6	1256.4	1248.9	1244.5	1238.7	1241.9	1246.0
42.5°	1332.2	1336.2	1345.2	1351.9	1354.8	1352.8	1342.3	1335.6	1328.1	1329.8	1333.9
45°	1430.8	1435.8	1448.5	1454.9	1460.4	1457.3	1447.1	1436.9	1425.0	1425.9	1432.3
47.5°	1541.1	1546.1	1562.6	1573.3	1576.3	1575.7	1564.4	1550.4	1534.2	1533.6	1539.1
50°	1664.8	1669.7	1690.3	1706.9	1715.3	1714.4	1701.1	1681.3	1661.6	1661.9	1668.8
52.5°	1785.5	1791.6	1813.1	1841.5	1858.1	1870.0	1861.8	1843.3	1819.2	1819.8	1826.1
55°	1898.7	1908.9	1933.5	1972.1	2002.9	2036.3	2045.8	2045.3	2030.8	2034.8	2041.2
57.5°	1953.6	1968.6	2006.7	2067.6	2130.3	2198.2	2255.7	2298.6	2316.9	2344.5	2338.1
60°	1849.6	1873.7	1929.8	2019.4	2143.4	2285.0	2436.8	2585.1	2711.6	2807.1	2752.3
62.5°	1514.4	1545.8	1613.7	1728.6	1916.1	2142.8	2433.3	2783.9	3165.9	3396.3	3231.7
65°	947.6	980.1	1049.2	1172.2	1391.7	1673.5	2067.6	2648.7	3362.3	3709.7	3374.8
67.5°	369.5	387.2	424.6	503.3	668.1	918.9	1314.5	1973.9	2827.4	3131.9	2774.9
70°	185.2	186.9	193.9	208.4	243.8	316.6	481.8	915.1	1621.5	1958.5	1563.2
72.5°	133.8	134.1	137.6	144.0	155.3	171.5	202.9	280.1	527.4	806.0	494.3
75°	102.5	103.6	105.6	109.1	115.2	123.3	134.7	161.4	200.0	231.9	195.0
77.5°	78.9	81.3	82.7	85.9	89.7	95.2	98.4	108.5	126.3	132.9	130.9
80°	60.1	62.1	65.3	67.9	70.5	73.1	72.0	76.6	85.9	91.4	88.5
82.5°	38.3	40.6	49.9	52.2	53.4	55.1	53.1	53.4	57.5	60.9	57.5
85°	24.7	26.1	31.6	34.5	34.8	36.0	35.1	33.1	33.1	30.2	34.0
87.5°	11.3	11.6	14.2	16.8	17.4	15.7	15.4	14.8	11.9	11.3	12.2
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°	701.2	701.2	701.2	701.2	701.2	701.2	701.2	701.2
2.5°	700.9	701.5	701.8	702.7	702.9	702.9	703.2	703.8
5°	706.4	707.3	707.6	708.7	709.0	708.7	709.3	709.6
7.5°	716.3	717.7	718.3	719.5	718.6	719.8	720.1	720.1
10°	730.8	732.3	732.5	733.7	733.1	733.7	733.7	733.1
12.5°	750.0	750.3	749.4	750.3	749.1	749.7	748.8	748.2
15°	771.1	770.3	768.2	768.2	766.5	766.8	766.5	766.2
17.5°	791.8	790.0	788.6	788.0	786.5	786.2	785.4	785.4
20°	814.4	813.5	812.7	811.5	810.0	808.6	808.3	808.9
22.5°	841.7	841.4	841.4	840.8	838.8	837.3	836.4	836.4
25°	878.2	875.6	875.6	875.3	874.5	873.6	871.9	872.7
27.5°	919.5	918.0	919.2	918.9	918.0	918.0	916.8	916.8
30°	970.2	969.7	971.4	970.0	967.1	966.8	965.6	964.2
32.5°	1028.9	1028.3	1030.9	1029.2	1024.5	1021.9	1019.6	1018.4
35°	1094.2	1094.5	1097.7	1096.5	1091.3	1089.5	1085.5	1084.9
37.5°	1165.6	1170.2	1175.7	1176.9	1172.5	1171.4	1167.0	1164.7
40°	1249.4	1255.5	1264.0	1266.0	1261.3	1260.5	1254.4	1251.2
42.5°	1338.8	1349.3	1359.7	1361.5	1356.8	1352.2	1346.4	1344.1
45°	1438.7	1451.2	1464.8	1468.3	1461.3	1455.8	1448.3	1448.3
47.5°	1550.7	1566.4	1581.8	1591.3	1585.0	1579.2	1570.2	1564.4
50°	1683.1	1704.5	1724.6	1734.4	1724.3	1713.2	1697.6	1692.3
52.5°	1849.1	1872.3	1889.7	1884.5	1868.8	1853.4	1836.3	1829.3
55°	2060.9	2068.8	2068.8	2049.0	2017.7	1991.9	1964.9	1955.9
57.5°	2325.9	2295.7	2249.3	2190.4	2116.4	2051.9	2008.4	1987.8
60°	2637.3	2492.2	2328.2	2167.2	2034.8	1925.7	1861.0	1831.4
62.5°	2844.9	2465.2	2136.7	1878.1	1687.7	1556.2	1466.8	1432.0
65°	2658.8	2056.0	1616.0	1306.6	1099.1	965.3	876.8	844.3
67.5°	1947.5	1288.3	860.5	616.7	451.9	360.5	324.2	309.1
70°	874.2	453.6	278.0	217.1	187.2	171.8	165.1	162.8
72.5°	263.5	190.7	160.8	145.1	133.2	125.7	120.2	119.6
75°	159.0	132.3	117.5	108.3	100.7	94.6	91.7	90.8
77.5°	111.2	97.2	90.3	83.6	77.8	73.1	70.5	68.5
80°	78.1	71.4	68.2	64.4	60.7	56.3	52.5	50.8
82.5°	52.2	50.8	50.8	48.5	45.3	41.2	33.7	31.9
85°	33.7	33.4	34.0	33.1	30.8	26.4	21.8	20.6
87.5°	15.7	16.0	17.7	17.4	16.8	13.9	11.0	10.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)