

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: P200548

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200548
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: GWC-AF-02-LED-E1-5NQ-8030-600
Description: GALLEON WALL 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: 6889 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' 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



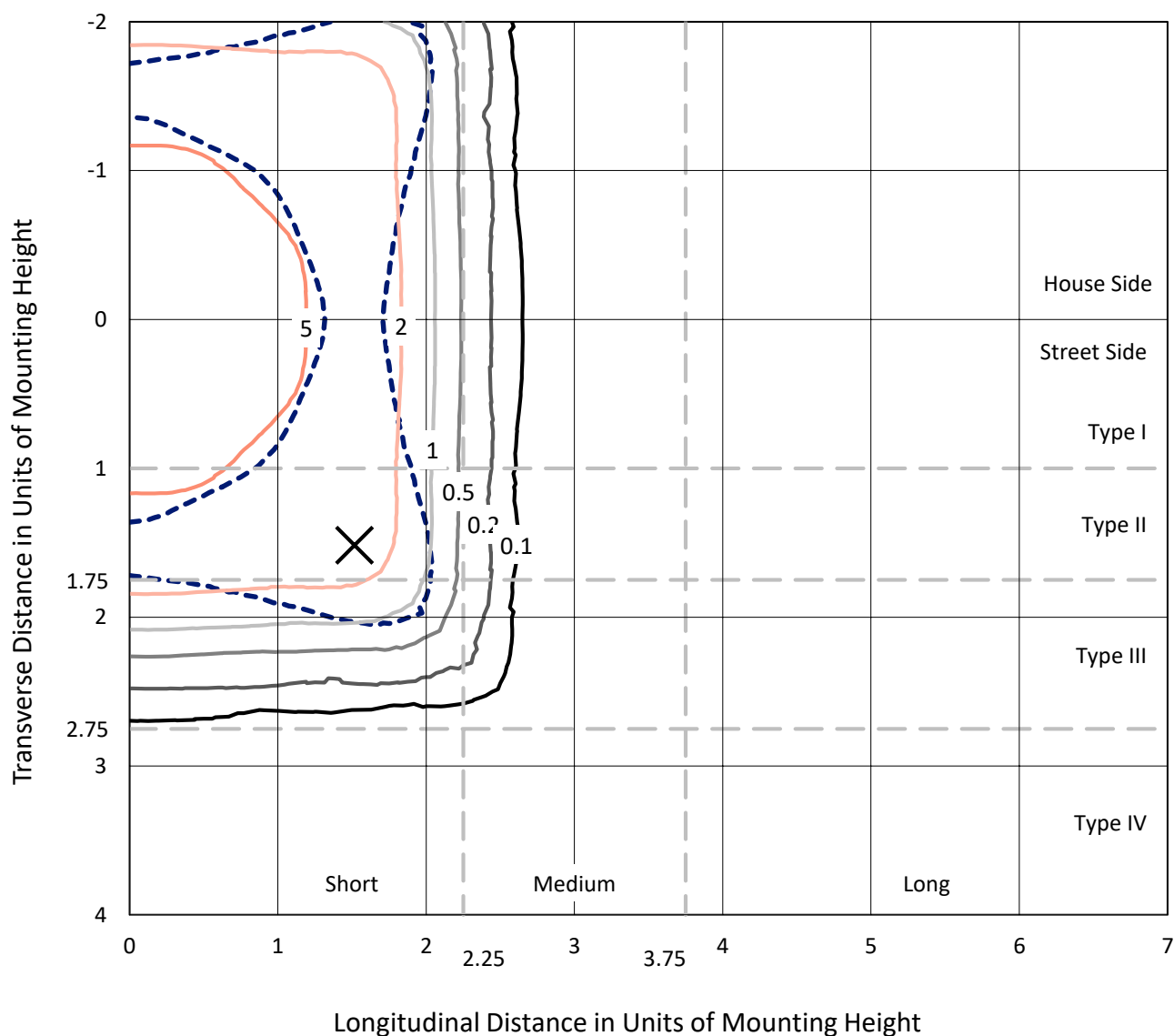
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

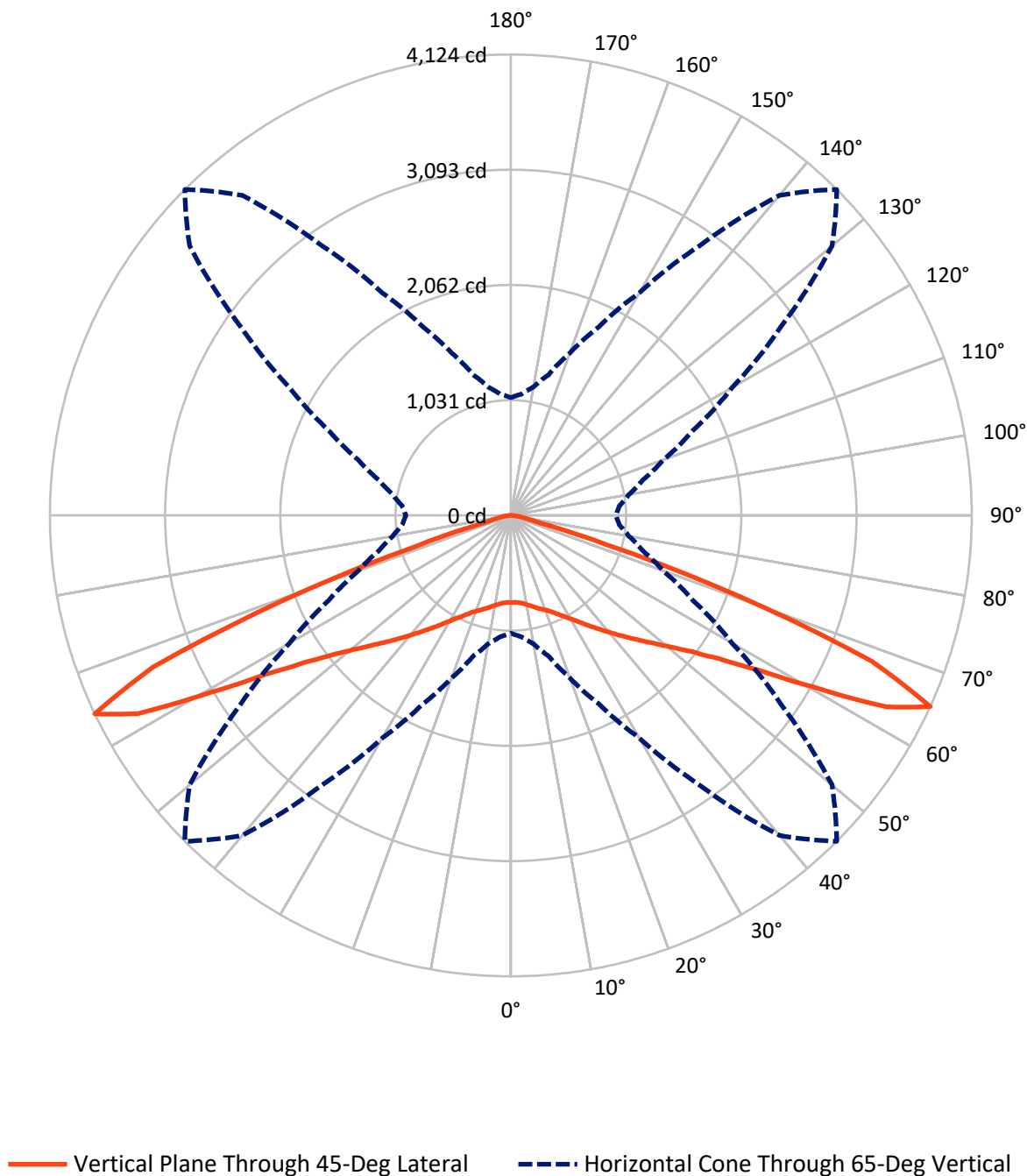


Based on 10 foot mounting height. Maximum calculated value = 7.8 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3444.5	0.0	3444.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3444.5	0.0	3444.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	6889.0	0.0	6889.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.0	1.1
10°-20°	243.7	3.5
20°-30°	455.6	6.6
30°-40°	770.6	11.2
40°-50°	1260.0	18.3
50°-60°	2003.5	29.1
60°-70°	1811.1	26.3
70°-80°	229.2	3.3
80°-90°	39.4	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°	6889.0	100.0
0°-180°	6889.0	100.0

Coefficient of Utilization



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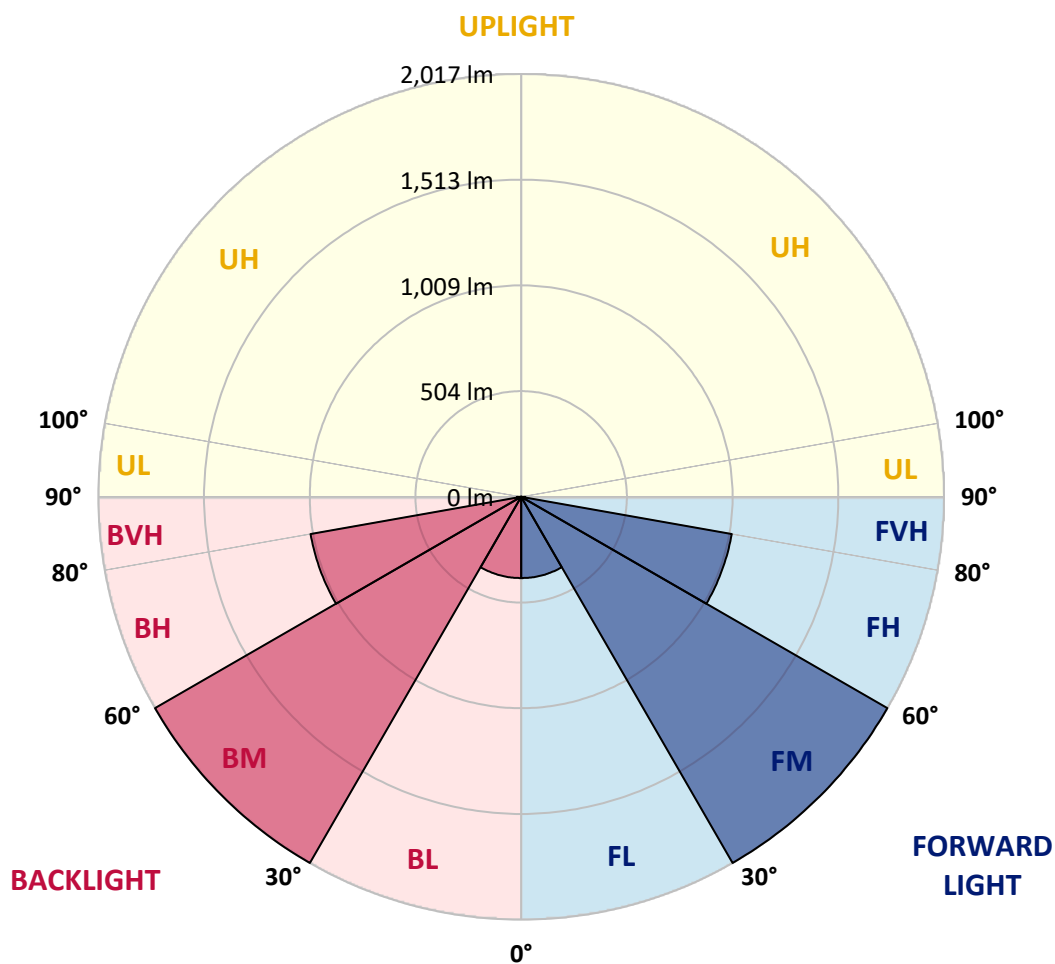
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	387.6	5.6			
FM	(30°-60°)	2017.0	29.3			
FH	(60°-80°)	1020.1	14.8			G1/1800
FVH	(80°-90°)	19.7	0.3			G1/100
BL	(0°-30°)	387.6	5.6	B1/500		
BM	(30°-60°)	2017.0	29.3	B2/2500		
BH	(60°-80°)	1020.1	14.8	B3/2500		G1/1800
BVH	(80°-90°)	19.7	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°	779.5	779.5	779.5	779.5	779.5	779.5	779.5	779.5	779.5	779.5	779.5
2.5°	780.1	780.8	781.4	780.8	781.4	780.5	779.8	780.8	779.8	778.8	779.5
5°	786.9	787.2	787.2	786.3	787.2	786.6	785.6	786.9	785.9	785.0	785.6
7.5°	798.2	799.5	798.5	797.6	798.2	797.6	796.9	797.2	796.9	795.9	796.3
10°	813.4	814.3	813.7	813.4	814.0	813.7	813.0	812.7	813.0	812.1	812.1
12.5°	831.8	831.4	831.1	831.4	832.4	832.4	832.1	832.4	833.1	833.4	832.7
15°	849.8	850.5	850.5	850.5	852.4	854.0	855.0	855.6	856.9	857.2	856.0
17.5°	872.4	872.4	872.1	872.4	874.3	876.9	877.9	879.2	880.5	881.4	879.8
20°	897.6	898.2	898.2	898.9	901.5	904.4	904.4	905.0	904.4	905.0	904.0
22.5°	928.2	930.2	930.2	930.5	933.1	936.6	935.7	936.6	935.0	936.3	935.0
25°	968.2	971.1	970.5	970.5	972.4	974.7	975.0	976.9	976.6	978.2	977.3
27.5°	1013.4	1017.9	1019.2	1018.9	1020.2	1022.4	1023.1	1025.3	1024.1	1025.3	1024.7
30°	1067.6	1069.5	1072.1	1073.1	1074.7	1077.0	1077.0	1077.3	1075.7	1077.6	1078.6
32.5°	1123.7	1127.3	1129.9	1135.7	1138.6	1140.2	1139.9	1140.5	1138.9	1141.5	1143.4
35°	1198.0	1200.5	1204.7	1209.2	1213.1	1212.8	1211.8	1212.2	1212.2	1214.4	1216.3
37.5°	1287.3	1288.0	1293.5	1299.9	1301.8	1299.9	1294.1	1292.8	1289.9	1292.8	1296.0
40°	1381.9	1384.1	1395.1	1399.3	1400.3	1396.7	1388.3	1383.5	1377.0	1380.6	1385.1
42.5°	1480.9	1485.4	1495.4	1502.8	1506.1	1503.8	1492.2	1484.8	1476.4	1478.3	1482.8
45°	1590.6	1596.1	1610.3	1617.4	1623.5	1620.0	1608.7	1597.4	1584.2	1585.1	1592.2
47.5°	1713.2	1718.7	1737.1	1749.0	1752.2	1751.6	1739.0	1723.5	1705.5	1704.8	1711.0
50°	1850.7	1856.1	1879.0	1897.4	1906.8	1905.8	1891.0	1869.0	1847.1	1847.4	1855.2
52.5°	1984.9	1991.6	2015.5	2047.1	2065.5	2078.8	2069.7	2049.1	2022.3	2022.9	2030.0
55°	2110.7	2122.0	2149.4	2192.3	2226.5	2263.6	2274.3	2273.6	2257.5	2262.0	2269.1
57.5°	2171.7	2188.5	2230.7	2298.5	2368.2	2443.7	2507.5	2555.3	2575.6	2606.3	2599.2
60°	2056.2	2083.0	2145.2	2244.9	2382.7	2540.1	2708.9	2873.7	3014.4	3120.6	3059.6
62.5°	1683.5	1718.4	1793.9	1921.6	2130.1	2382.0	2705.0	3094.7	3519.3	3775.5	3592.6
65°	1053.4	1089.5	1166.3	1303.1	1547.1	1860.3	2298.5	2944.4	3737.8	4124.0	3751.6
67.5°	410.7	430.4	472.0	559.5	742.7	1021.5	1461.2	2194.3	3143.1	3481.6	3084.7
70°	205.8	207.8	215.5	231.7	271.0	352.0	535.6	1017.3	1802.6	2177.2	1737.7
72.5°	148.7	149.1	152.9	160.0	172.6	190.7	225.5	311.3	586.2	896.0	549.5
75°	113.9	115.2	117.4	121.3	128.1	137.1	149.7	179.4	222.3	257.8	216.8
77.5°	87.8	90.3	92.0	95.5	99.7	105.8	109.4	120.7	140.3	147.8	145.5
80°	66.8	69.0	72.6	75.5	78.4	81.3	80.0	85.2	95.5	101.6	98.4
82.5°	42.6	45.2	55.5	58.1	59.4	61.3	59.0	59.4	63.9	67.8	63.9
85°	27.4	29.0	35.2	38.4	38.7	40.0	39.0	36.8	36.8	33.6	37.7
87.5°	12.6	12.9	15.8	18.7	19.4	17.4	17.1	16.5	13.2	12.6	13.6
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°	779.5	779.5	779.5	779.5	779.5	779.5	779.5	779.5
2.5°	779.2	779.8	780.1	781.1	781.4	781.4	781.8	782.4
5°	785.3	786.3	786.6	787.9	788.2	787.9	788.5	788.9
7.5°	796.3	797.9	798.5	799.8	798.9	800.1	800.5	800.5
10°	812.4	814.0	814.3	815.6	815.0	815.6	815.6	815.0
12.5°	833.7	834.0	833.1	834.0	832.7	833.4	832.4	831.8
15°	857.2	856.3	854.0	854.0	852.1	852.4	852.1	851.8
17.5°	880.2	878.2	876.6	876.0	874.3	874.0	873.1	873.1
20°	905.3	904.4	903.4	902.1	900.5	898.9	898.5	899.2
22.5°	935.7	935.3	935.3	934.7	932.4	930.8	929.8	929.8
25°	976.3	973.4	973.4	973.1	972.1	971.1	969.2	970.2
27.5°	1022.1	1020.5	1021.8	1021.5	1020.5	1020.5	1019.2	1019.2
30°	1078.6	1077.9	1079.9	1078.3	1075.0	1074.7	1073.4	1071.8
32.5°	1143.8	1143.1	1146.0	1144.1	1138.9	1136.0	1133.4	1132.1
35°	1216.3	1216.7	1220.2	1218.9	1213.1	1211.2	1206.7	1206.0
37.5°	1295.7	1300.9	1307.0	1308.3	1303.5	1302.2	1297.3	1294.7
40°	1389.0	1395.7	1405.1	1407.3	1402.2	1401.2	1394.4	1390.9
42.5°	1488.3	1499.9	1511.6	1513.5	1508.3	1503.2	1496.7	1494.1
45°	1599.3	1613.2	1628.4	1632.2	1624.5	1618.4	1610.0	1610.0
47.5°	1723.9	1741.3	1758.4	1769.0	1761.9	1755.5	1745.5	1739.0
50°	1871.0	1894.9	1917.1	1928.1	1916.8	1904.5	1887.1	1881.3
52.5°	2055.5	2081.3	2100.7	2094.9	2077.5	2060.4	2041.3	2033.6
55°	2291.1	2299.8	2299.8	2277.8	2243.0	2214.3	2184.3	2174.3
57.5°	2585.6	2552.1	2500.4	2435.0	2352.7	2281.1	2232.7	2209.7
60°	2931.8	2770.5	2588.2	2409.1	2262.0	2140.7	2068.8	2035.8
62.5°	3162.5	2740.5	2375.3	2087.8	1876.1	1730.0	1630.6	1591.9
65°	2955.7	2285.6	1796.4	1452.5	1221.8	1073.1	974.7	938.6
67.5°	2164.9	1432.2	956.6	685.6	502.3	400.7	360.4	343.6
70°	971.8	504.3	309.1	241.3	208.1	191.0	183.6	181.0
72.5°	293.0	212.0	178.7	161.3	148.1	139.7	133.6	132.9
75°	176.8	147.1	130.7	120.3	112.0	105.2	102.0	101.0
77.5°	123.6	108.1	100.3	92.9	86.5	81.3	78.4	76.1
80°	86.8	79.4	75.8	71.6	67.4	62.6	58.4	56.5
82.5°	58.1	56.5	56.5	53.9	50.3	45.8	37.4	35.5
85°	37.4	37.1	37.7	36.8	34.2	29.4	24.2	22.9
87.5°	17.4	17.7	19.7	19.4	18.7	15.5	12.3	11.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)