

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: P199912

Luminaire Tested: **GWC-AF-02-LED-E1-5NQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199912
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-7030
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12393.3 lumens
Efficiency: N/A
Efficacy: 109.7 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 - G2

Input Watts (W): 113
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

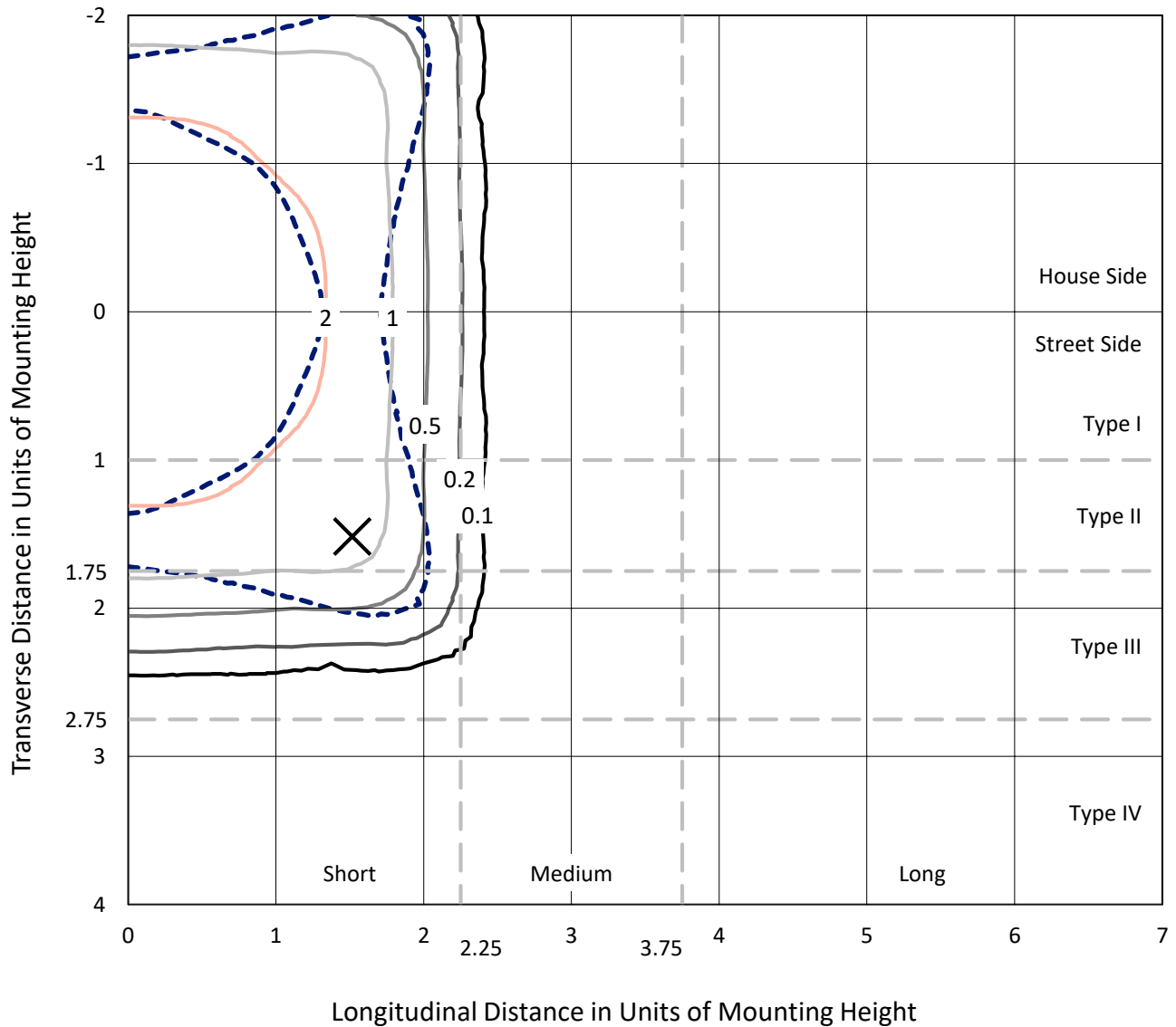


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

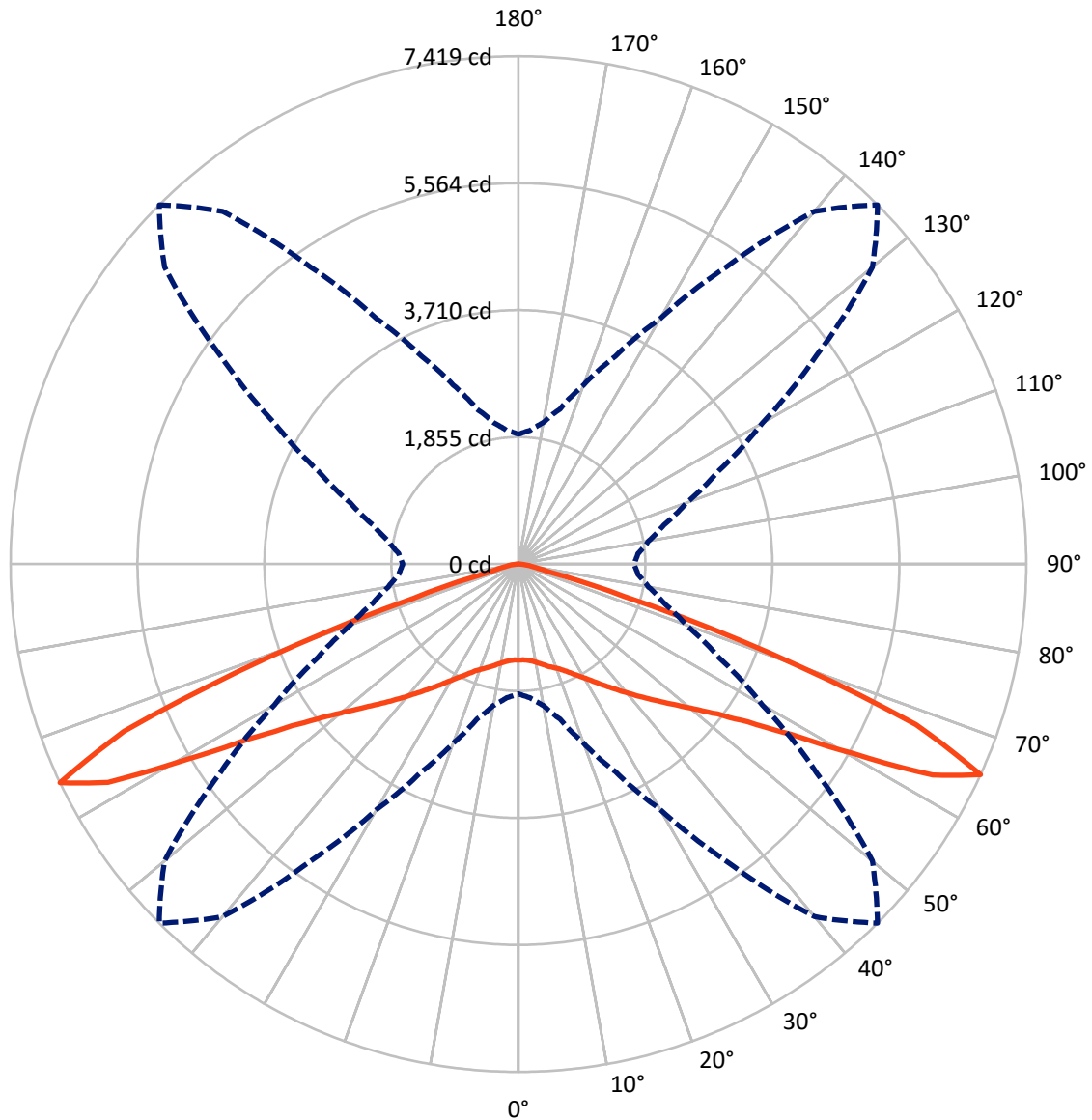


Based on 20 foot mounting height. Maximum calculated value = 3.5 fc
 Type V - Short - Full Cutoff

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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
House Side	Lumens	6196.7	0.0	6196.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6196.7	0.0	6196.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	12393.3	0.0	12393.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.7	1.1
10°-20°	438.4	3.5
20°-30°	819.6	6.6
30°-40°	1386.3	11.2
40°-50°	2266.7	18.3
50°-60°	3604.4	29.1
60°-70°	3258.1	26.3
70°-80°	412.3	3.3
80°-90°	70.9	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°	12393.3	100.0
0°-180°	12393.3	100.0



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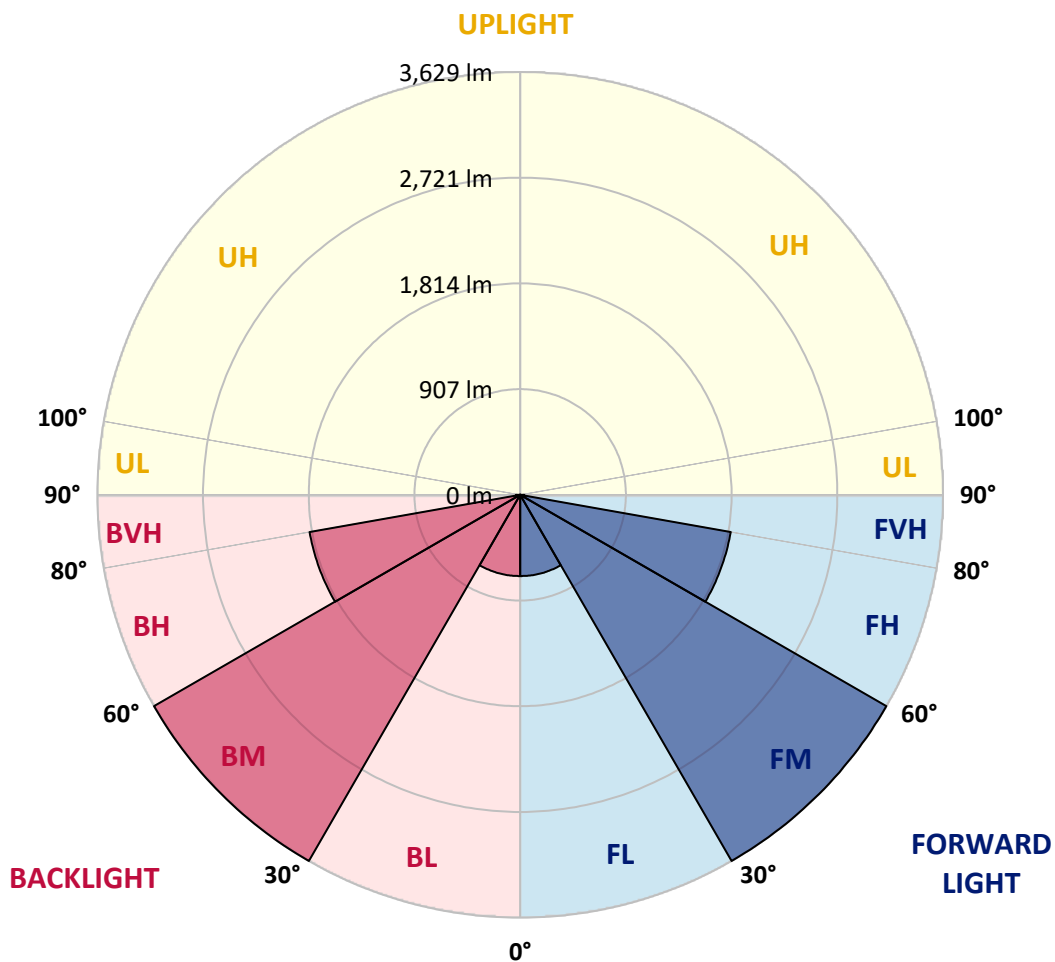
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	697.3	5.6			
FM (30°-60°)	3628.6	29.3			
FH (60°-80°)	1835.2	14.8			G2/5000
FVH (80°-90°)	35.5	0.3			G1/100
BL (0°-30°)	697.3	5.6	B2/1000		
BM (30°-60°)	3628.6	29.3	B3/5000		
BH (60°-80°)	1835.2	14.8	B3/2500		G2/5000
BVH (80°-90°)	35.5	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-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1402.4	1402.4	1402.4	1402.4	1402.4	1402.4	1402.4	1402.4	1402.4	1402.4	1402.4
2.5°	1403.4	1404.6	1405.8	1404.6	1405.8	1404.1	1402.9	1404.6	1402.9	1401.1	1402.4
5°	1415.7	1416.2	1416.2	1414.5	1416.2	1415.1	1413.4	1415.7	1414.0	1412.1	1413.4
7.5°	1436.0	1438.3	1436.5	1434.8	1436.0	1434.8	1433.7	1434.2	1433.7	1432.0	1432.5
10°	1463.2	1464.9	1463.8	1463.2	1464.4	1463.8	1462.7	1462.1	1462.7	1460.9	1460.9
12.5°	1496.3	1495.8	1495.2	1495.8	1497.5	1497.5	1497.0	1497.5	1498.7	1499.2	1498.1
15°	1528.9	1529.9	1529.9	1529.9	1533.5	1536.4	1538.2	1539.3	1541.6	1542.2	1539.9
17.5°	1569.5	1569.5	1568.9	1569.5	1572.9	1577.6	1579.4	1581.6	1583.9	1585.7	1582.8
20°	1614.8	1616.0	1616.0	1617.0	1621.7	1627.0	1627.0	1628.1	1627.0	1628.1	1626.4
22.5°	1669.9	1673.5	1673.5	1674.0	1678.5	1685.0	1683.2	1685.0	1682.0	1684.3	1682.0
25°	1741.8	1747.0	1746.0	1746.0	1749.4	1753.5	1754.0	1757.6	1757.0	1759.8	1758.1
27.5°	1823.1	1831.3	1833.6	1833.0	1835.3	1839.4	1840.5	1844.7	1842.2	1844.7	1843.4
30°	1920.7	1924.0	1928.8	1930.5	1933.4	1937.5	1937.5	1938.0	1935.1	1938.6	1940.3
32.5°	2021.7	2028.0	2032.7	2043.1	2048.3	2051.3	2050.7	2051.8	2048.9	2053.5	2057.1
35°	2155.1	2159.7	2167.2	2175.5	2182.4	2181.8	2180.0	2180.7	2180.7	2184.7	2188.3
37.5°	2315.9	2317.1	2326.9	2338.5	2342.0	2338.5	2328.1	2325.8	2320.5	2325.8	2331.6
40°	2485.9	2490.0	2509.8	2517.4	2519.1	2512.6	2497.5	2488.8	2477.2	2483.7	2491.7
42.5°	2664.2	2672.3	2690.3	2703.6	2709.4	2705.4	2684.5	2671.1	2656.0	2659.5	2667.7
45°	2861.5	2871.4	2896.9	2909.7	2920.7	2914.3	2894.0	2873.7	2849.9	2851.6	2864.4
47.5°	3082.1	3091.9	3125.1	3146.4	3152.2	3151.1	3128.5	3100.7	3068.1	3067.0	3078.0
50°	3329.3	3339.2	3380.4	3413.5	3430.3	3428.5	3401.9	3362.5	3322.9	3323.5	3337.5
52.5°	3570.8	3582.9	3625.9	3682.8	3715.9	3739.7	3723.4	3686.3	3638.2	3639.3	3652.0
55°	3797.1	3817.4	3866.8	3943.9	4005.6	4072.3	4091.4	4090.2	4061.2	4069.4	4082.2
57.5°	3906.9	3937.0	4013.1	4134.9	4260.3	4396.1	4511.1	4597.0	4633.5	4688.7	4675.9
60°	3699.1	3747.3	3859.2	4038.6	4286.5	4569.7	4873.3	5169.8	5422.9	5613.8	5504.2
62.5°	3028.6	3091.4	3227.2	3457.0	3831.9	4285.2	4866.3	5567.5	6331.2	6792.1	6463.0
65°	1895.1	1960.1	2098.3	2344.3	2783.2	3346.7	4134.9	5297.0	6724.3	7419.0	6749.2
67.5°	738.9	774.3	849.2	1006.5	1336.1	1837.6	2628.8	3947.4	5654.5	6263.4	5549.4
70°	370.3	373.7	387.8	416.8	487.6	633.2	963.5	1830.1	3242.9	3916.7	3126.1
72.5°	267.5	268.1	275.2	287.9	310.6	343.1	405.7	560.1	1054.7	1611.8	988.5
75°	204.9	207.3	211.3	218.2	230.4	246.7	269.4	322.8	399.9	463.8	390.0
77.5°	157.9	162.5	165.4	171.7	179.4	190.3	196.7	217.1	252.5	265.8	261.7
80°	120.1	124.2	130.6	135.8	141.1	146.3	143.9	153.2	171.7	182.8	177.0
82.5°	76.6	81.3	99.9	104.5	106.7	110.3	106.2	106.7	114.9	122.0	114.9
85°	49.3	52.2	63.3	69.1	69.6	72.0	70.3	66.2	66.2	60.3	68.0
87.5°	22.6	23.2	28.4	33.7	34.9	31.3	30.8	29.6	23.8	22.6	24.4
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°	1402.4	1402.4	1402.4	1402.4	1402.4	1402.4	1402.4	1402.4
2.5°	1401.7	1402.9	1403.4	1405.2	1405.8	1405.8	1406.3	1407.5
5°	1412.7	1414.5	1415.1	1417.4	1417.9	1417.4	1418.5	1419.2
7.5°	1432.5	1435.3	1436.5	1438.8	1437.1	1439.5	1440.0	1440.0
10°	1461.6	1464.4	1464.9	1467.4	1466.1	1467.4	1467.4	1466.1
12.5°	1499.8	1500.3	1498.7	1500.3	1498.1	1499.2	1497.5	1496.3
15°	1542.2	1540.4	1536.4	1536.4	1532.9	1533.5	1532.9	1532.4
17.5°	1583.3	1579.9	1577.0	1575.8	1572.9	1572.4	1570.6	1570.6
20°	1628.6	1627.0	1625.2	1622.8	1620.0	1617.0	1616.5	1617.7
22.5°	1683.2	1682.7	1682.7	1681.5	1677.4	1674.5	1672.8	1672.8
25°	1756.4	1751.1	1751.1	1750.6	1748.8	1747.0	1743.6	1745.3
27.5°	1838.9	1835.9	1838.2	1837.6	1835.9	1835.9	1833.6	1833.6
30°	1940.3	1939.3	1942.6	1939.8	1934.0	1933.4	1931.0	1928.2
32.5°	2057.6	2056.5	2061.7	2058.2	2048.9	2043.7	2039.0	2036.7
35°	2188.3	2188.8	2195.1	2192.9	2182.4	2178.9	2170.8	2169.7
37.5°	2330.9	2340.3	2351.3	2353.7	2344.9	2342.6	2333.9	2329.3
40°	2498.8	2510.9	2527.7	2531.9	2522.6	2520.8	2508.6	2502.2
42.5°	2677.5	2698.3	2719.3	2722.7	2713.5	2704.1	2692.5	2688.0
45°	2877.2	2902.2	2929.3	2936.4	2922.4	2911.4	2896.4	2896.4
47.5°	3101.3	3132.6	3163.3	3182.5	3169.7	3158.1	3140.1	3128.5
50°	3365.8	3408.8	3448.9	3468.7	3448.3	3426.3	3394.9	3384.5
52.5°	3697.9	3744.4	3779.2	3768.7	3737.3	3706.6	3672.3	3658.4
55°	4121.6	4137.3	4137.3	4097.8	4035.2	3983.5	3929.5	3911.5
57.5°	4651.5	4591.2	4498.3	4380.4	4232.4	4103.6	4016.6	3975.3
60°	5274.3	4984.1	4656.2	4334.0	4069.4	3851.2	3721.7	3662.5
62.5°	5689.3	4930.1	4273.1	3755.9	3375.1	3112.2	2933.5	2863.8
65°	5317.3	4111.8	3231.8	2613.1	2198.1	1930.5	1753.5	1688.5
67.5°	3894.6	2576.6	1721.0	1233.4	903.7	720.9	648.4	618.2
70°	1748.2	907.2	556.0	434.2	374.3	343.6	330.3	325.6
72.5°	527.0	381.4	321.6	290.2	266.4	251.3	240.3	239.2
75°	318.1	264.6	235.1	216.6	201.4	189.2	183.4	181.7
77.5°	222.4	194.5	180.5	167.1	155.5	146.3	141.1	137.0
80°	156.1	142.8	136.3	128.8	121.3	112.6	105.1	101.6
82.5°	104.5	101.6	101.6	96.9	90.5	82.4	67.3	63.8
85°	67.3	66.7	68.0	66.2	61.5	52.8	43.4	41.2
87.5°	31.3	31.9	35.4	34.9	33.7	27.9	22.1	20.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)