

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: P199914

Luminaire Tested: **GWC-AF-02-LED-E1-5NQ-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199914
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-7030-1200
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13595.1 lumens
Efficiency: N/A
Efficacy: 105.4 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 - G2

Input Watts (W): 129
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

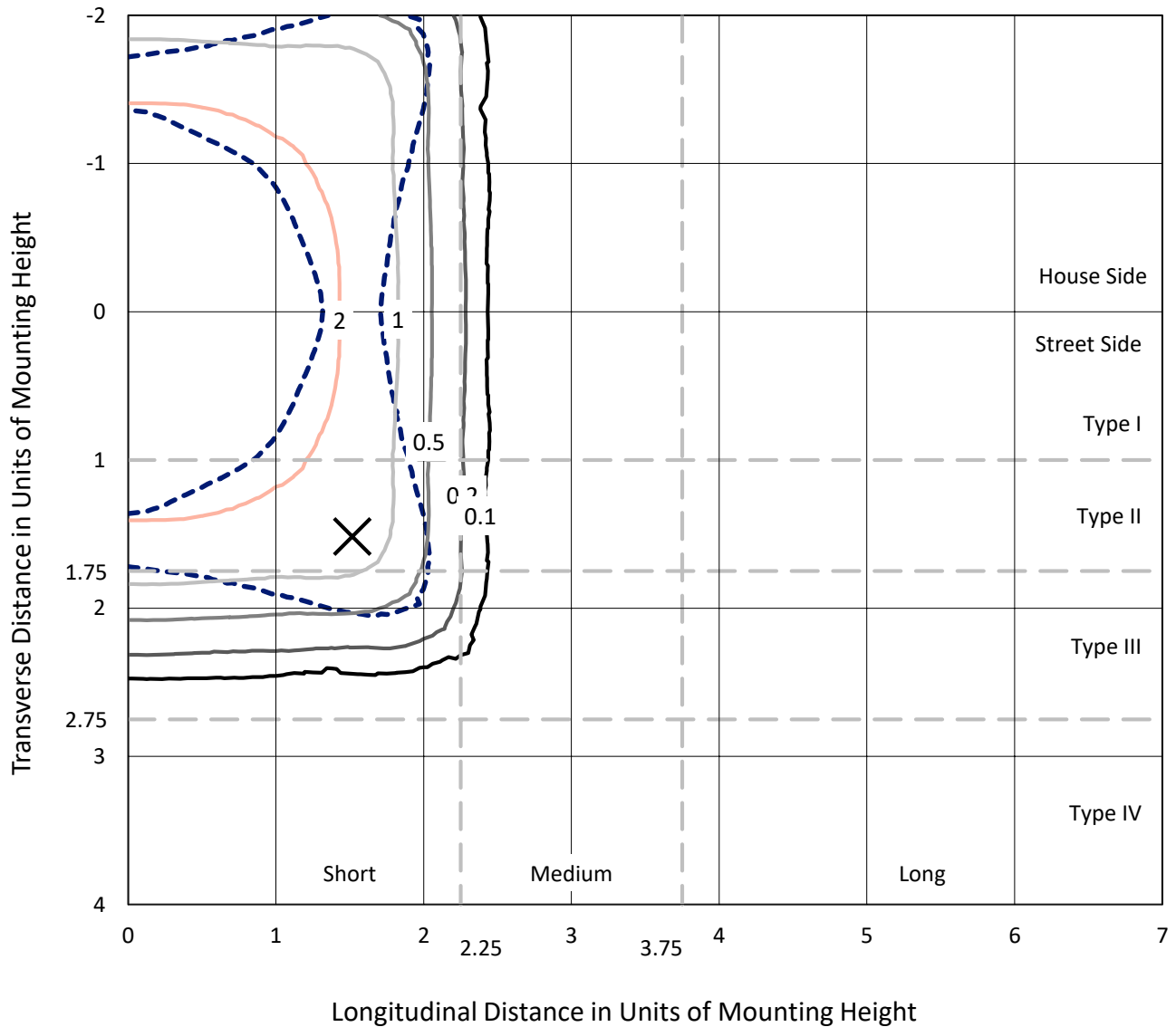


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

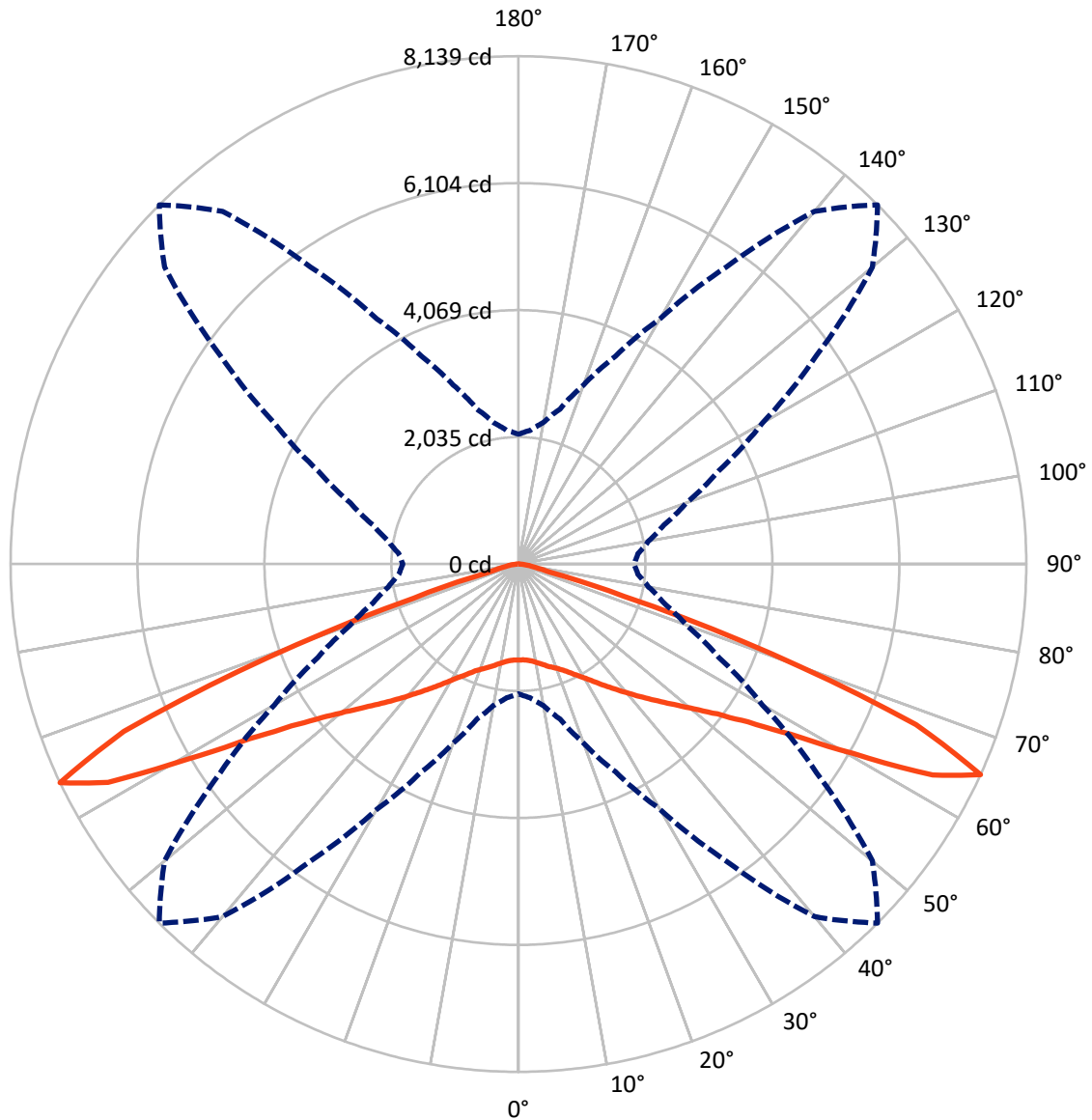


Based on 20 foot mounting height. Maximum calculated value = 3.9 fc
 Type V - Short - Full Cutoff

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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	6797.6	0.0	6797.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6797.6	0.0	6797.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	13595.1	0.0	13595.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.9	1.1
10°-20°	480.9	3.5
20°-30°	899.1	6.6
30°-40°	1520.7	11.2
40°-50°	2486.5	18.3
50°-60°	3953.9	29.1
60°-70°	3574.1	26.3
70°-80°	452.3	3.3
80°-90°	77.8	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°	13595.1	100.0
0°-180°	13595.1	100.0



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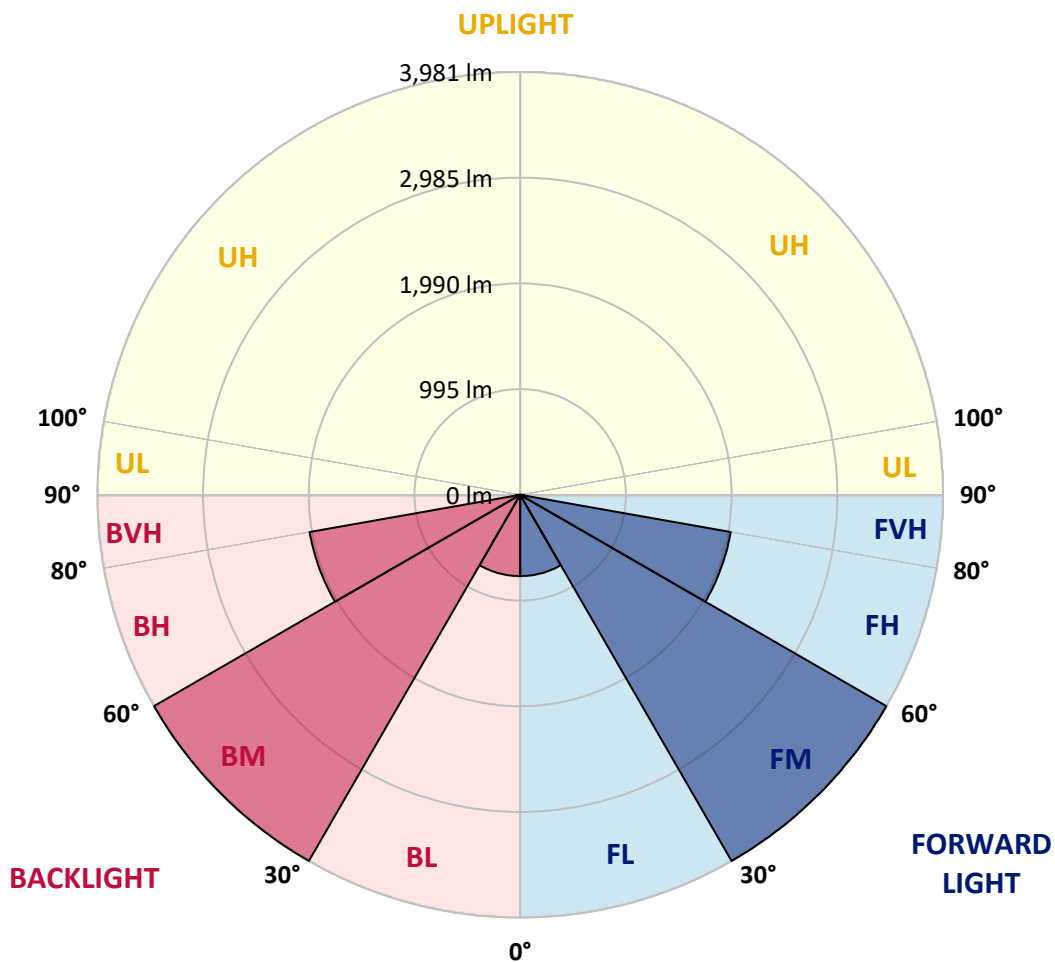
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	765.0	5.6			
FM	(30°-60°)	3980.5	29.3			
FH	(60°-80°)	2013.2	14.8			G2/5000
FVH	(80°-90°)	38.9	0.3			G1/100
BL	(0°-30°)	765.0	5.6	B2/1000		
BM	(30°-60°)	3980.5	29.3	B3/5000		
BH	(60°-80°)	2013.2	14.8	B3/2500		G2/5000
BVH	(80°-90°)	38.9	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°	1538.3	1538.3	1538.3	1538.3	1538.3	1538.3	1538.3	1538.3	1538.3	1538.3	1538.3
2.5°	1539.6	1540.9	1542.0	1540.9	1542.0	1540.2	1538.9	1540.9	1538.9	1537.1	1538.3
5°	1552.9	1553.5	1553.5	1551.7	1553.5	1552.3	1550.4	1552.9	1551.1	1549.1	1550.4
7.5°	1575.2	1577.8	1575.8	1574.0	1575.2	1574.0	1572.7	1573.4	1572.7	1570.8	1571.3
10°	1605.1	1607.1	1605.8	1605.1	1606.4	1605.8	1604.5	1603.9	1604.5	1602.7	1602.7
12.5°	1641.4	1640.8	1640.2	1640.8	1642.7	1642.7	1642.0	1642.7	1644.1	1644.7	1643.4
15°	1677.1	1678.3	1678.3	1678.3	1682.1	1685.4	1687.3	1688.6	1691.2	1691.8	1689.1
17.5°	1721.7	1721.7	1721.1	1721.7	1725.5	1730.5	1732.6	1735.0	1737.5	1739.5	1736.3
20°	1771.3	1772.6	1772.6	1774.0	1779.0	1784.7	1784.7	1786.0	1784.7	1786.0	1784.1
22.5°	1831.8	1835.7	1835.7	1836.3	1841.3	1848.3	1846.5	1848.3	1845.2	1847.8	1845.2
25°	1910.7	1916.5	1915.2	1915.2	1919.0	1923.5	1924.2	1928.0	1927.4	1930.5	1928.7
27.5°	1999.9	2008.8	2011.4	2010.7	2013.3	2017.7	2019.0	2023.5	2021.0	2023.5	2022.2
30°	2106.8	2110.7	2115.8	2117.7	2120.9	2125.3	2125.3	2125.9	2122.8	2126.6	2128.5
32.5°	2217.6	2224.6	2229.8	2241.2	2246.9	2250.2	2249.5	2250.7	2247.6	2252.7	2256.5
35°	2364.2	2369.2	2377.5	2386.4	2394.1	2393.5	2391.4	2392.1	2392.1	2396.6	2400.4
37.5°	2540.5	2541.8	2552.7	2565.3	2569.1	2565.3	2553.8	2551.3	2545.5	2551.3	2557.6
40°	2727.0	2731.5	2753.2	2761.4	2763.2	2756.3	2739.7	2730.2	2717.5	2724.5	2733.4
42.5°	2922.4	2931.4	2951.2	2965.9	2972.2	2967.7	2944.7	2930.2	2913.6	2917.4	2926.3
45°	3139.0	3149.8	3177.8	3191.8	3203.9	3196.9	3174.6	3152.3	3126.2	3128.2	3142.2
47.5°	3380.9	3391.7	3428.0	3451.6	3457.9	3456.8	3431.9	3401.3	3365.6	3364.4	3376.4
50°	3652.2	3663.0	3708.3	3744.6	3763.0	3761.0	3731.7	3688.5	3645.2	3645.8	3661.1
52.5°	3917.1	3930.4	3977.6	4040.0	4076.3	4102.3	4084.5	4043.8	3990.9	3992.3	4006.2
55°	4165.4	4187.7	4241.8	4326.4	4394.0	4467.2	4488.2	4486.9	4455.0	4464.0	4478.0
57.5°	4285.7	4318.8	4402.3	4535.9	4673.4	4822.4	4948.6	5042.8	5082.8	5143.4	5129.4
60°	4057.8	4110.7	4233.5	4430.3	4702.1	5012.9	5345.8	5671.2	5948.8	6158.3	6038.0
62.5°	3322.3	3391.1	3540.1	3792.3	4203.5	4700.9	5338.2	6107.4	6945.3	7450.8	7089.9
65°	2078.8	2150.2	2301.8	2571.6	3053.0	3671.3	4535.9	5810.6	7376.3	8138.5	7403.7
67.5°	810.4	849.4	931.6	1104.1	1465.7	2015.9	2883.7	4330.3	6202.8	6870.8	6087.6
70°	406.2	410.0	425.3	457.1	534.9	694.7	1057.0	2007.5	3557.3	4296.5	3429.3
72.5°	293.5	294.1	301.8	315.8	340.7	376.3	445.0	614.5	1156.9	1768.2	1084.3
75°	224.7	227.3	231.7	239.4	252.8	270.6	295.4	354.0	438.6	508.7	427.9
77.5°	173.1	178.3	181.5	188.5	196.7	208.8	215.9	238.0	277.0	291.6	287.2
80°	131.7	136.2	143.2	149.0	154.7	160.5	157.9	168.0	188.5	200.6	194.2
82.5°	84.0	89.1	109.5	114.6	117.1	121.0	116.5	117.1	126.0	133.8	126.0
85°	54.1	57.3	69.4	75.7	76.4	79.0	77.0	72.5	72.5	66.2	74.6
87.5°	24.8	25.4	31.2	36.9	38.2	34.4	33.8	32.4	26.1	24.8	26.8
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°	1538.3	1538.3	1538.3	1538.3	1538.3	1538.3	1538.3	1538.3
2.5°	1537.6	1538.9	1539.6	1541.4	1542.0	1542.0	1542.7	1544.1
5°	1549.8	1551.7	1552.3	1554.9	1555.6	1554.9	1556.1	1556.7
7.5°	1571.3	1574.5	1575.8	1578.4	1576.5	1579.1	1579.7	1579.7
10°	1603.3	1606.4	1607.1	1609.6	1608.3	1609.6	1609.6	1608.3
12.5°	1645.2	1645.9	1644.1	1645.9	1643.4	1644.7	1642.7	1641.4
15°	1691.8	1689.8	1685.4	1685.4	1681.6	1682.1	1681.6	1681.0
17.5°	1737.0	1733.2	1729.9	1728.7	1725.5	1724.8	1722.9	1722.9
20°	1786.6	1784.7	1782.8	1780.3	1777.1	1774.0	1773.3	1774.5
22.5°	1846.5	1845.8	1845.8	1844.6	1840.2	1836.8	1835.0	1835.0
25°	1926.7	1921.0	1921.0	1920.3	1918.4	1916.5	1912.7	1914.5
27.5°	2017.2	2013.8	2016.5	2015.9	2013.8	2013.8	2011.4	2011.4
30°	2128.5	2127.3	2131.1	2128.0	2121.5	2120.9	2118.3	2115.2
32.5°	2257.2	2255.8	2261.5	2257.8	2247.6	2241.9	2236.7	2234.3
35°	2400.4	2401.1	2408.1	2405.5	2394.1	2390.3	2381.3	2380.0
37.5°	2557.0	2567.3	2579.3	2581.9	2572.3	2569.8	2560.3	2555.1
40°	2741.1	2754.4	2772.9	2777.4	2767.1	2765.3	2751.9	2744.8
42.5°	2937.1	2960.1	2983.0	2986.8	2976.7	2966.4	2953.8	2948.6
45°	3156.2	3183.6	3213.6	3221.1	3205.8	3193.7	3177.2	3177.2
47.5°	3402.0	3436.3	3470.1	3491.1	3477.0	3464.4	3444.6	3431.9
50°	3692.3	3739.4	3783.3	3805.0	3782.7	3758.5	3724.1	3712.6
52.5°	4056.5	4107.4	4145.7	4134.2	4099.7	4066.1	4028.5	4013.2
55°	4521.2	4538.5	4538.5	4495.2	4426.4	4369.8	4310.5	4290.8
57.5°	5102.6	5036.5	4934.4	4805.2	4642.9	4501.6	4406.1	4360.9
60°	5785.9	5467.5	5107.7	4754.3	4464.0	4224.6	4082.6	4017.7
62.5°	6241.0	5408.3	4687.4	4120.1	3702.5	3414.1	3217.9	3141.5
65°	5833.0	4510.4	3545.3	2866.5	2411.3	2117.7	1923.5	1852.2
67.5°	4272.4	2826.3	1887.9	1353.0	991.3	790.8	711.2	678.1
70°	1917.8	995.2	610.0	476.3	410.7	377.0	362.3	357.2
72.5°	578.1	418.4	352.7	318.4	292.3	275.7	263.7	262.3
75°	348.9	290.3	257.9	237.5	220.9	207.6	201.2	199.3
77.5°	243.8	213.3	198.0	183.3	170.7	160.5	154.7	150.2
80°	171.3	156.7	149.5	141.4	133.1	123.6	115.3	111.5
82.5°	114.6	111.5	111.5	106.3	99.3	90.4	73.9	70.0
85°	73.9	73.2	74.6	72.5	67.5	57.9	47.7	45.3
87.5°	34.4	35.1	38.8	38.2	36.9	30.6	24.1	23.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)