

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: STREETWORKS

Report Number: P193342

Luminaire Tested: **GAN-AF-04-LED-U-5MQ-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193342
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-04-LED-U-5MQ-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16630 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 171
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: 28.75 FT

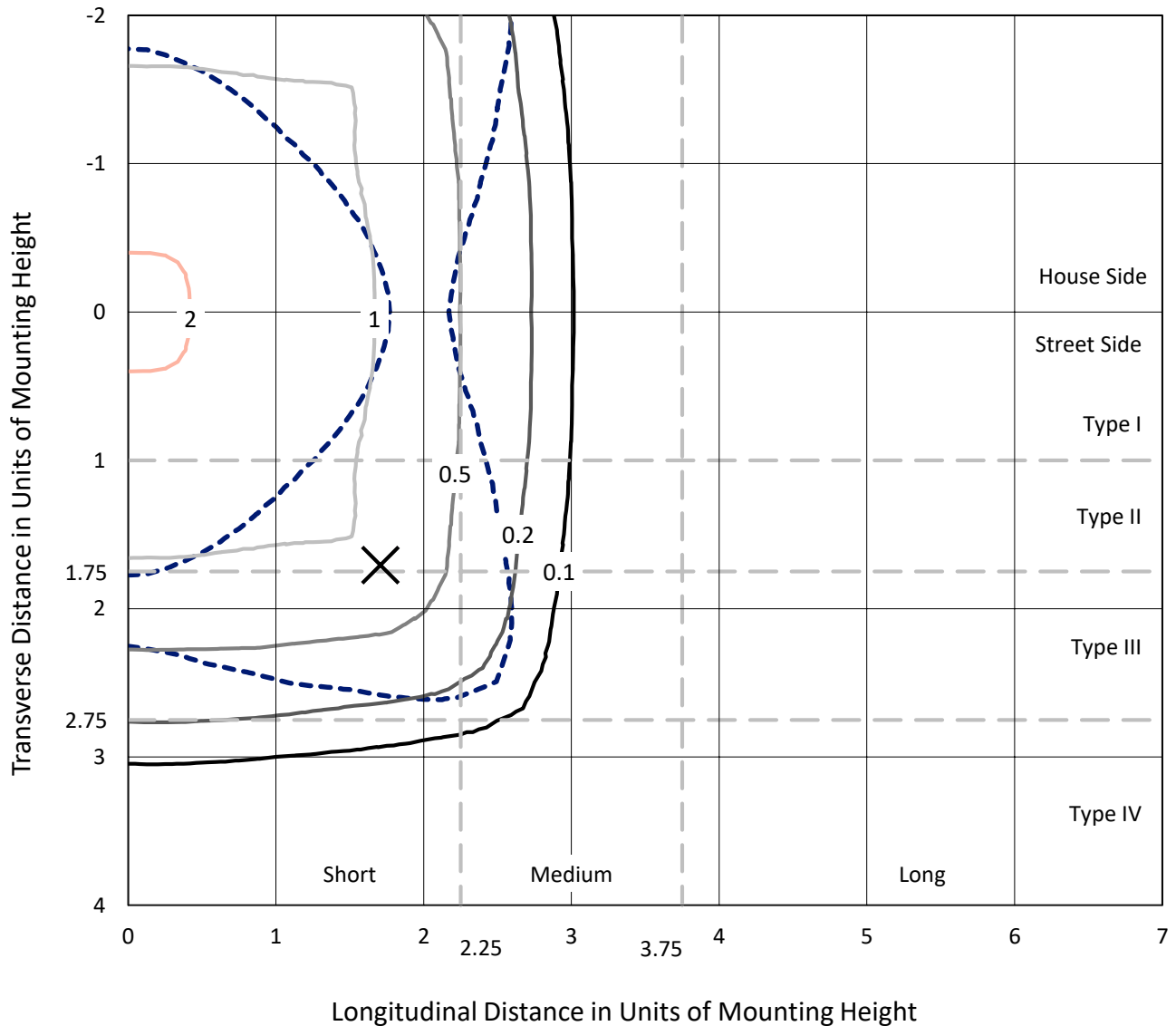


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

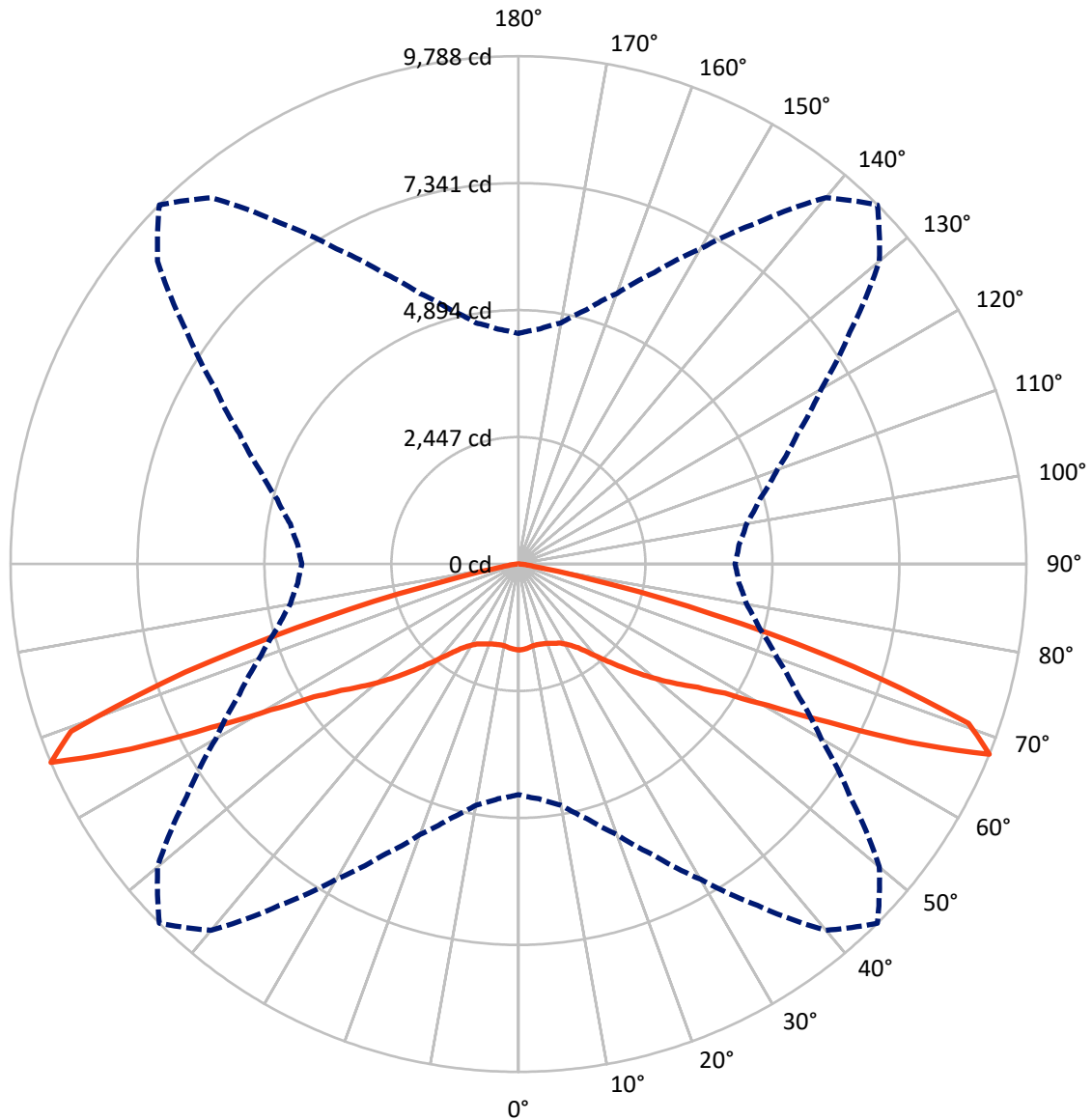


Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8315.0	0.0	8315.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8315.0	0.0	8315.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	16630.0	0.0	16630.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.1	0.9
10°-20°	450.1	2.7
20°-30°	765.2	4.6
30°-40°	1250.8	7.5
40°-50°	2232.9	13.4
50°-60°	3764.8	22.6
60°-70°	5842.4	35.1
70°-80°	2052.8	12.3
80°-90°	116.0	0.7
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°	16630.0	100.0
0°-180°	16630.0	100.0

Coefficient of Utilization



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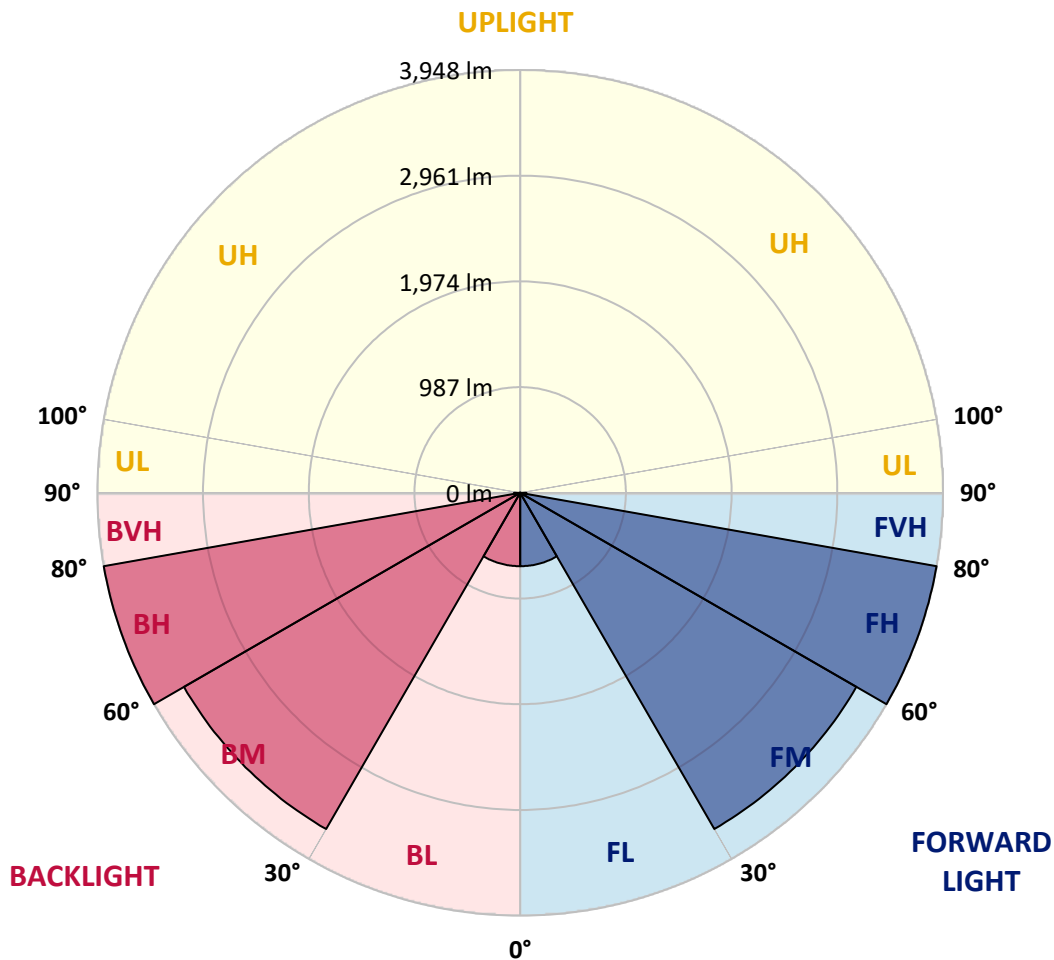
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	685.2	4.1			
FM	(30°-60°)	3624.3	21.8			
FH	(60°-80°)	3947.6	23.7			G2/5000
FVH	(80°-90°)	58.0	0.3			G1/100
BL	(0°-30°)	685.2	4.1	B2/1000		
BM	(30°-60°)	3624.3	21.8	B3/5000		
BH	(60°-80°)	3947.6	23.7	B4/5000		G2/5000
BVH	(80°-90°)	58.0	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1657.2	1657.2	1657.2	1657.2	1657.2	1657.2	1657.2	1657.2	1657.2	1657.2	1657.2
2.5°	1651.1	1652.7	1652.7	1652.7	1651.9	1651.9	1650.4	1651.9	1651.1	1648.8	1649.6
5°	1637.4	1638.9	1638.9	1638.1	1640.4	1639.7	1637.4	1638.9	1638.1	1636.6	1637.4
7.5°	1617.5	1619.8	1619.8	1619.0	1621.3	1620.5	1619.0	1619.8	1619.8	1617.5	1617.5
10°	1595.3	1596.8	1596.8	1596.1	1599.9	1599.9	1599.1	1601.4	1602.2	1599.9	1598.4
12.5°	1574.7	1576.9	1576.9	1580.0	1583.8	1585.4	1589.2	1592.2	1595.3	1594.5	1591.5
15°	1562.4	1563.9	1567.0	1570.8	1576.9	1582.3	1588.4	1595.3	1601.4	1603.0	1598.4
17.5°	1554.8	1557.1	1561.7	1567.0	1575.4	1584.6	1593.8	1603.0	1611.4	1614.4	1609.1
20°	1552.5	1554.0	1558.6	1567.8	1579.2	1593.0	1606.0	1616.7	1628.2	1632.0	1628.2
22.5°	1557.1	1560.1	1565.5	1576.2	1591.5	1609.1	1624.4	1638.9	1653.4	1660.3	1655.0
25°	1577.7	1580.8	1587.7	1601.4	1618.2	1636.6	1654.2	1671.0	1684.0	1690.9	1687.1
27.5°	1616.0	1619.8	1628.2	1642.0	1660.3	1680.2	1699.3	1713.1	1723.8	1726.1	1721.5
30°	1673.3	1681.7	1691.7	1707.0	1728.4	1745.2	1764.3	1776.6	1789.6	1789.6	1785.7
32.5°	1762.8	1771.2	1781.9	1796.4	1813.3	1831.6	1848.4	1859.1	1872.9	1873.7	1864.5
35°	1896.6	1900.4	1909.6	1918.8	1934.1	1950.2	1964.7	1971.6	1983.0	1983.8	1975.4
37.5°	2073.3	2074.0	2080.2	2083.2	2097.0	2114.6	2128.3	2132.9	2143.6	2142.1	2133.7
40°	2279.0	2282.8	2285.1	2289.7	2304.2	2321.1	2335.6	2337.9	2349.4	2347.1	2336.4
42.5°	2516.8	2518.4	2531.4	2538.3	2552.0	2560.4	2578.8	2581.1	2594.9	2588.7	2576.5
45°	2783.8	2797.5	2809.8	2823.5	2838.0	2848.0	2862.5	2859.5	2868.6	2859.5	2852.6
47.5°	3064.4	3074.4	3101.9	3123.3	3147.0	3155.4	3176.1	3166.9	3176.1	3163.1	3160.8
50°	3373.4	3391.0	3414.7	3439.2	3464.4	3478.2	3504.9	3493.5	3505.7	3493.5	3486.6
52.5°	3677.8	3682.4	3734.4	3770.3	3805.5	3821.5	3837.6	3832.2	3833.0	3832.2	3825.4
55°	3966.8	3977.6	4029.6	4078.5	4139.7	4184.8	4212.3	4209.3	4202.4	4195.5	4184.0
57.5°	4292.6	4303.3	4363.0	4423.4	4493.0	4557.2	4613.1	4670.4	4692.6	4698.7	4673.5
60°	4733.1	4732.4	4811.9	4885.3	4984.7	5080.3	5202.7	5327.4	5470.4	5536.9	5449.0
62.5°	5181.3	5199.6	5314.4	5444.4	5649.3	5848.9	6074.5	6296.3	6522.7	6707.0	6511.2
65°	5127.8	5198.1	5368.7	5663.1	6041.7	6491.3	6977.7	7492.4	7957.4	8277.1	7918.4
67.5°	4444.1	4544.2	4717.8	5075.8	5549.1	6197.7	7014.4	8032.3	9215.4	9787.5	9078.5
70°	3221.2	3334.4	3516.4	3865.9	4334.7	4951.1	5838.2	7060.3	8626.6	9203.2	8422.4
72.5°	1603.0	1664.1	1776.6	1999.1	2354.0	2854.1	3658.6	4833.3	6219.1	6748.3	6034.8
75°	544.5	572.8	591.9	664.6	777.0	973.5	1373.5	2113.1	3223.5	3864.4	3177.6
77.5°	314.3	315.1	328.1	341.1	360.2	381.6	435.2	571.3	988.1	1403.3	1022.5
80°	203.4	202.7	213.4	223.3	236.3	247.0	250.1	264.6	305.1	361.7	323.5
82.5°	105.5	118.5	142.2	155.2	179.7	184.3	178.2	172.8	182.8	189.7	194.3
85°	58.1	50.5	75.7	97.9	108.6	110.1	110.1	104.0	107.8	105.5	114.7
87.5°	26.8	24.5	29.8	48.2	51.2	43.6	45.9	40.5	29.1	28.3	32.1
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°	1657.2	1657.2	1657.2	1657.2	1657.2	1657.2	1657.2	1657.2
2.5°	1649.6	1650.4	1650.4	1652.7	1653.4	1655.0	1656.5	1657.2
5°	1636.6	1638.9	1637.4	1639.7	1639.7	1641.2	1641.2	1642.0
7.5°	1617.5	1619.8	1619.8	1619.8	1619.0	1621.3	1621.3	1621.3
10°	1597.6	1599.1	1598.4	1596.8	1595.3	1597.6	1596.8	1596.1
12.5°	1591.5	1587.7	1584.6	1583.1	1580.0	1580.8	1578.5	1578.5
15°	1595.3	1588.4	1583.1	1580.8	1577.7	1576.2	1574.7	1575.4
17.5°	1605.2	1596.8	1590.0	1586.1	1582.3	1580.0	1576.9	1577.7
20°	1622.8	1612.9	1603.0	1595.3	1588.4	1584.6	1582.3	1581.5
22.5°	1648.8	1634.3	1619.8	1608.3	1599.1	1593.8	1591.5	1590.0
25°	1678.7	1662.6	1645.8	1632.8	1623.6	1616.7	1612.1	1612.1
27.5°	1716.1	1703.1	1687.8	1672.5	1664.1	1657.2	1654.2	1652.7
30°	1778.8	1766.6	1754.4	1739.8	1729.1	1722.3	1716.9	1712.3
32.5°	1859.1	1849.2	1839.3	1828.6	1818.6	1809.4	1801.0	1797.2
35°	1972.3	1964.7	1957.8	1945.6	1941.7	1936.4	1931.8	1928.0
37.5°	2128.3	2125.3	2125.3	2112.3	2109.2	2106.9	2102.3	2103.1
40°	2333.3	2336.4	2332.5	2328.0	2325.7	2319.5	2319.5	2324.9
42.5°	2575.7	2578.0	2586.4	2578.8	2587.2	2579.6	2575.0	2578.8
45°	2857.2	2865.6	2882.4	2874.8	2880.1	2867.1	2851.1	2851.8
47.5°	3173.0	3180.7	3187.5	3182.2	3183.0	3161.5	3140.1	3134.8
50°	3501.1	3504.2	3508.0	3500.3	3501.9	3478.2	3453.7	3454.5
52.5°	3825.4	3839.9	3855.2	3834.5	3830.0	3803.2	3768.8	3755.0
55°	4196.3	4216.9	4199.3	4163.4	4127.4	4091.5	4046.4	4038.7
57.5°	4653.6	4618.4	4563.4	4495.3	4445.6	4395.1	4349.2	4330.1
60°	5289.9	5157.6	5058.2	4957.2	4893.7	4831.8	4771.4	4762.2
62.5°	6189.3	5960.6	5762.5	5553.7	5383.2	5250.1	5143.8	5114.0
65°	7316.5	6775.8	6307.0	5869.6	5489.5	5202.7	5022.2	4942.7
67.5°	7801.4	6733.8	5930.0	5309.0	4811.9	4464.7	4269.7	4172.6
70°	6855.4	5584.3	4710.2	4088.4	3635.7	3265.6	3088.9	2984.9
72.5°	4716.3	3552.3	2809.0	2292.8	1931.0	1621.3	1498.9	1489.8
75°	2117.6	1402.6	966.7	744.9	627.1	545.3	520.0	500.9
77.5°	592.7	438.2	390.8	365.6	341.1	312.8	302.1	304.4
80°	288.3	272.3	261.6	245.5	223.3	199.6	188.9	193.5
82.5°	191.2	188.9	195.8	184.3	152.2	129.2	108.6	99.4
85°	116.2	117.8	120.1	120.8	102.5	71.9	48.9	55.1
87.5°	45.9	52.8	57.4	59.7	55.8	34.4	27.5	28.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)