

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: P270072

Luminaire Tested: **GPC-AF-02-LED-E1-T3R-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270072
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GPC-AF-02-LED-E1-T3R-7027-1200
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12104.6 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

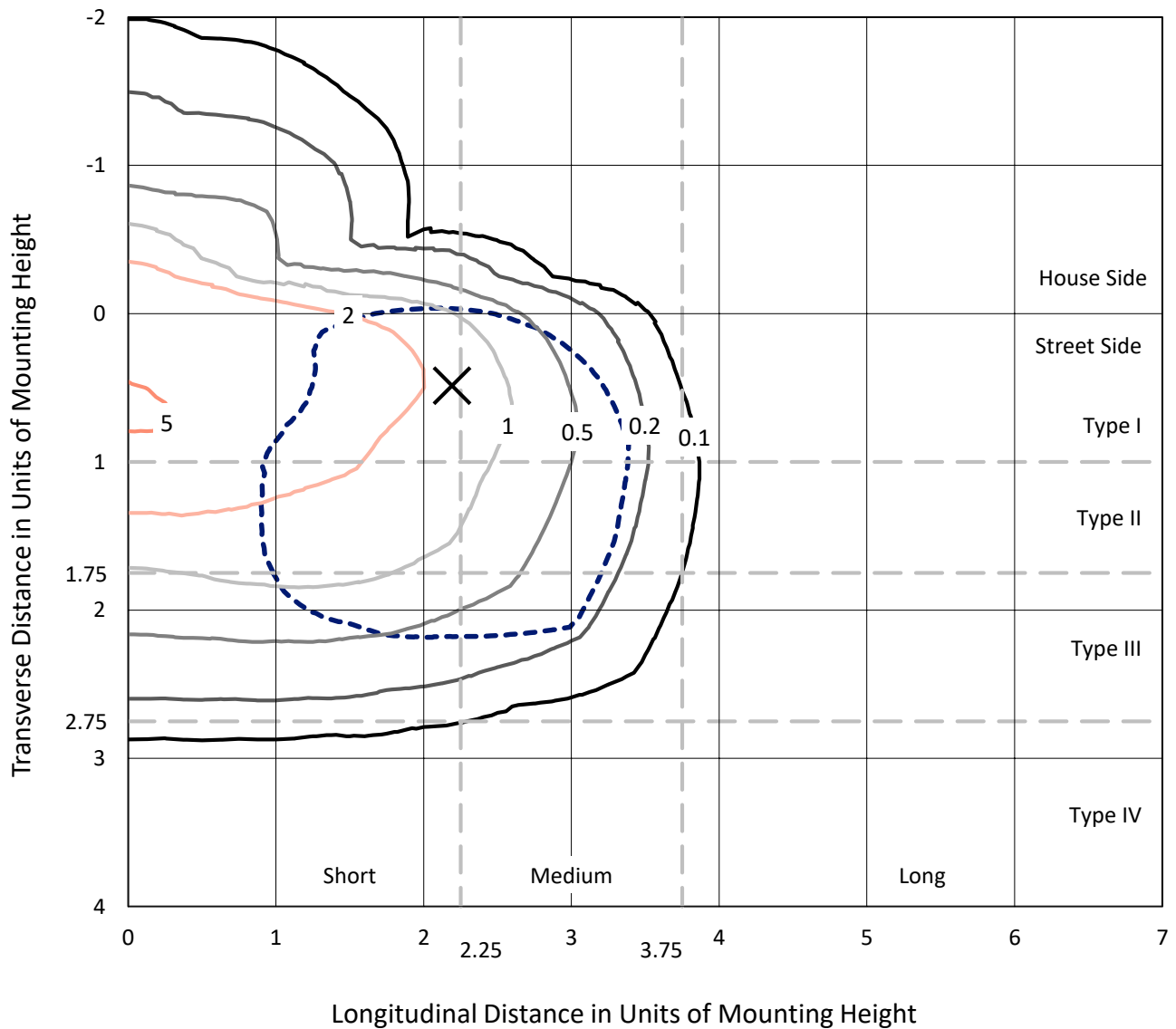
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

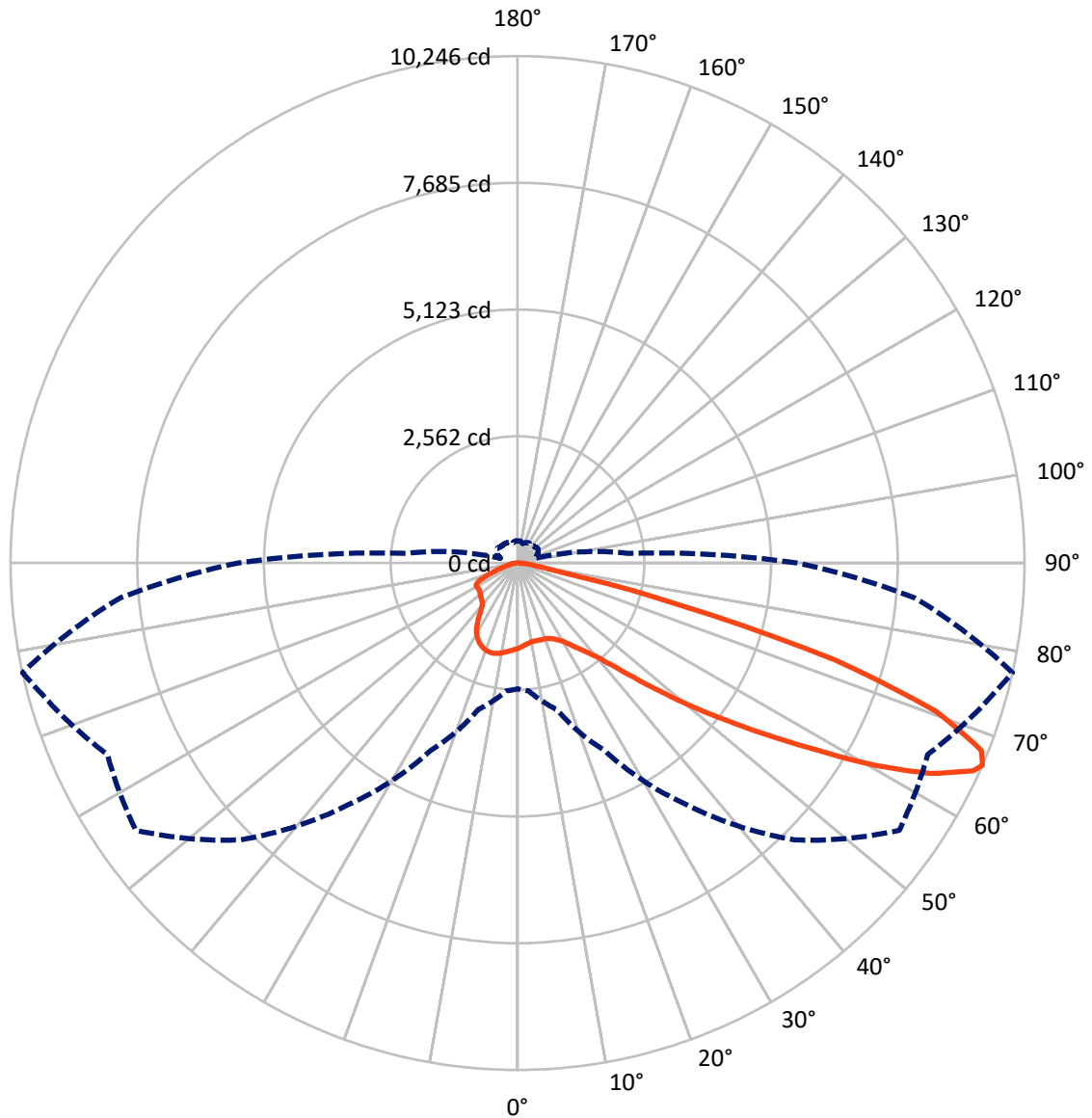
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.3 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2068.0	0.0	2068.0
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	10036.6	0.0	10036.6
	% Fixture	82.9	0.0	82.9
Total	Lumens	12104.6	0.0	12104.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.1	1.3
10°-20°	434.8	3.6
20°-30°	742.0	6.1
30°-40°	1187.8	9.8
40°-50°	1835.1	15.2
50°-60°	2602.8	21.5
60°-70°	3481.8	28.8
70°-80°	1512.1	12.5
80°-90°	154.2	1.3
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°	12104.6	100.0
0°-180°	12104.6	100.0



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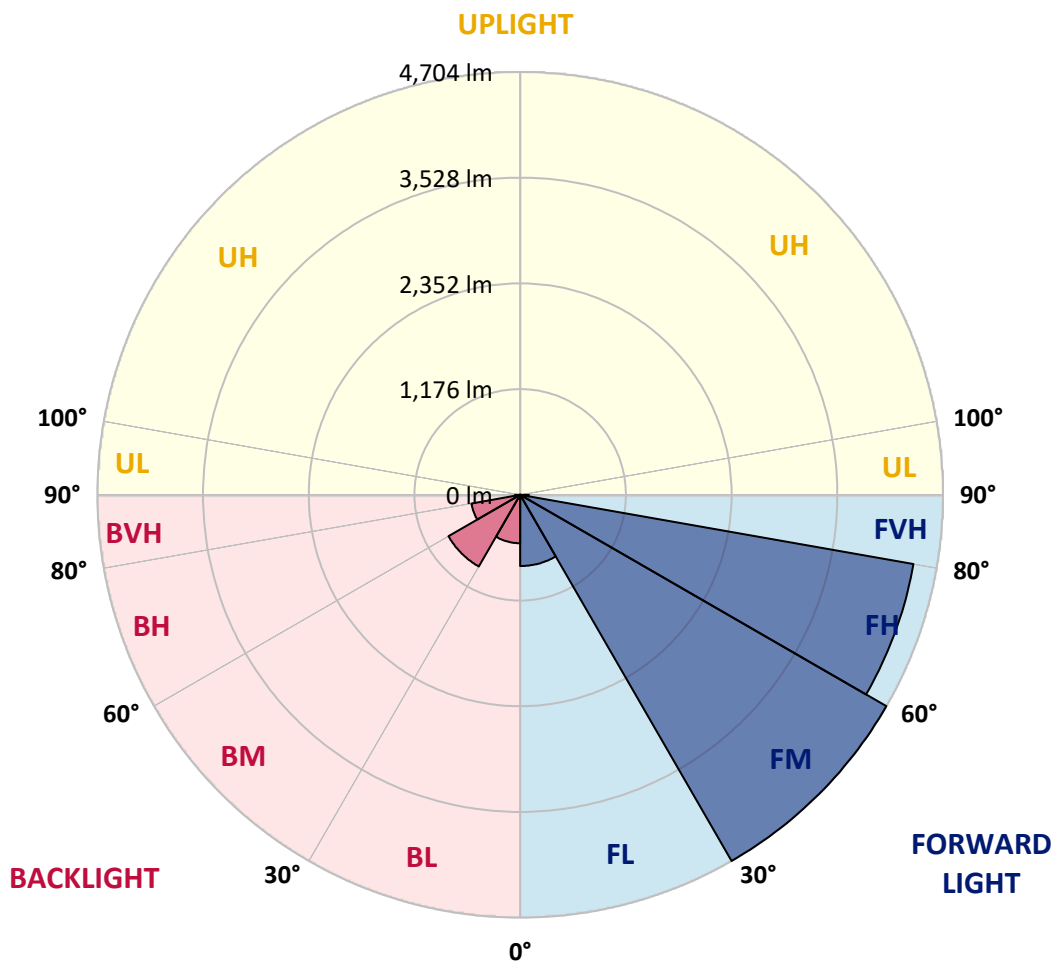
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	792.3	6.5			
FM	(30°-60°)	4704.5	38.9			
FH	(60°-80°)	4443.1	36.7			G2/5000
FVH	(80°-90°)	96.7	0.8			G1/100
BL	(0°-30°)	538.6	4.4	B2/1000		
BM	(30°-60°)	921.2	7.6	B1/1000		
BH	(60°-80°)	550.7	4.5	B2/1000		G2/1000
BVH	(80°-90°)	57.5	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	1724.9	1724.9	1724.9	1724.9	1724.9	1724.9	1724.9	1724.9	1724.9	1724.9	1724.9
2.5°	1526.0	1536.2	1544.8	1552.8	1568.8	1595.1	1625.5	1650.0	1685.5	1692.3	1711.2
5°	1385.8	1385.8	1392.6	1404.7	1426.4	1465.9	1507.0	1562.0	1639.1	1657.5	1707.8
7.5°	1317.8	1318.4	1322.3	1332.6	1351.5	1387.5	1432.6	1497.4	1601.9	1632.3	1718.1
10°	1342.8	1337.1	1328.7	1323.5	1326.3	1347.5	1390.3	1462.4	1579.1	1617.9	1740.9
12.5°	1483.6	1472.7	1442.9	1403.5	1365.9	1350.3	1375.6	1445.8	1569.3	1614.6	1771.3
15°	1713.5	1708.9	1653.5	1571.7	1480.1	1403.5	1386.4	1439.5	1570.5	1618.6	1807.3
17.5°	2001.9	1995.4	1922.4	1803.3	1654.0	1504.8	1424.7	1444.7	1574.5	1625.5	1842.2
20°	2293.0	2273.4	2194.5	2052.6	1861.1	1642.6	1488.2	1457.9	1579.7	1632.8	1878.8
22.5°	2510.3	2494.2	2423.3	2285.5	2064.8	1802.2	1573.4	1480.8	1596.3	1654.6	1924.0
25°	2701.3	2702.5	2632.0	2498.7	2270.6	1971.5	1683.2	1541.9	1638.6	1699.2	1985.8
27.5°	2937.5	2923.8	2858.0	2725.8	2474.2	2142.5	1816.0	1626.0	1701.5	1762.7	2067.0
30°	3220.1	3210.4	3134.2	2984.3	2700.1	2326.2	1967.5	1723.8	1782.7	1846.1	2173.4
32.5°	3552.3	3547.8	3468.9	3276.1	2961.0	2542.3	2145.3	1853.1	1904.0	1969.8	2326.2
35°	3942.4	3942.9	3849.6	3618.1	3246.4	2793.9	2347.2	2019.5	2051.5	2120.2	2508.0
37.5°	4182.6	4211.8	4176.8	3940.7	3569.4	3075.3	2609.1	2240.4	2219.7	2288.9	2703.0
40°	4234.0	4269.6	4379.9	4259.9	3931.0	3385.4	2841.3	2452.5	2426.7	2511.4	2954.0
42.5°	4161.9	4211.2	4444.5	4529.2	4314.6	3767.3	3153.7	2767.6	2735.0	2848.9	3266.3
45°	4119.1	4155.6	4425.7	4669.3	4647.7	4199.1	3551.2	3163.4	3151.3	3300.6	3626.6
47.5°	4044.8	4077.9	4337.6	4701.9	4843.2	4594.9	4028.7	3647.3	3670.7	3866.2	4033.3
50°	4084.9	4098.4	4239.2	4618.9	4899.7	4885.0	4562.3	4207.8	4287.8	4531.9	4493.7
52.5°	4079.1	4114.5	4227.8	4482.8	4907.3	5063.9	5088.0	4832.9	5001.7	5281.9	5004.5
55°	3297.8	3363.0	4093.3	4448.5	4933.5	5239.5	5555.7	5491.8	5806.4	6132.9	5581.0
57.5°	3149.1	3190.3	3595.1	4520.6	5073.1	5574.7	6076.2	6217.0	6743.1	7122.3	6283.4
60°	3120.0	3170.8	3590.0	4608.7	5356.2	6121.0	6847.8	7095.0	7883.0	8298.3	7097.8
62.5°	3028.9	3083.9	3556.3	4597.3	5758.2	6876.4	7835.6	8028.3	8963.9	9367.7	7779.0
65°	2740.6	2792.2	3281.1	4412.6	6029.3	7682.8	9004.6	8883.9	9817.2	10121.1	8118.6
66°	2543.5	2593.8	3064.5	4195.2	5966.5	7911.6	9418.6	9148.7	10008.3	10246.2	8052.2
67.5°	2182.5	2222.0	2643.5	3708.5	5631.8	7975.7	9767.0	9347.8	10028.4	10112.4	7673.1
70°	1379.0	1390.3	1718.1	2560.0	4263.3	6916.9	9236.8	8853.5	9201.2	8973.7	6432.7
72.5°	598.2	594.3	824.7	1302.4	2413.6	4641.3	7471.8	7305.3	7217.8	6698.5	4502.8
75°	332.8	337.5	428.4	604.5	980.9	2279.8	4887.8	4677.4	3949.2	3369.8	2041.8
77.5°	267.1	273.4	355.2	428.9	440.3	795.0	2287.2	1861.1	1120.5	899.2	567.4
80°	211.0	222.5	309.9	334.0	296.8	327.7	738.9	590.8	443.3	406.7	293.9
82.5°	167.1	175.0	266.0	252.9	207.6	220.8	354.0	344.9	288.3	262.6	169.9
85°	120.2	134.9	218.5	190.4	136.2	148.7	235.0	225.4	165.3	134.9	74.9
87.5°	49.1	64.0	154.4	126.4	76.0	69.2	117.3	110.4	78.3	57.2	37.2
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1724.9	1724.9	1724.9	1724.9	1724.9	1724.9	1724.9	1724.9	1724.9	1724.9	1724.9
2.5°	1723.3	1737.0	1754.7	1765.6	1771.3	1775.3	1781.6	1781.0	1782.7	1783.2	1785.7
5°	1734.6	1757.5	1783.2	1790.1	1790.1	1783.9	1777.6	1767.2	1763.4	1762.1	1763.4
7.5°	1764.5	1789.7	1811.9	1803.8	1786.6	1761.5	1729.0	1700.4	1685.0	1679.8	1678.7
10°	1802.2	1832.5	1841.6	1811.3	1760.9	1700.4	1635.8	1588.8	1562.0	1554.5	1552.2
12.5°	1848.0	1876.5	1864.0	1799.8	1706.7	1608.9	1519.7	1444.7	1388.7	1371.0	1369.7
15°	1898.3	1920.5	1876.5	1764.5	1625.5	1481.3	1322.3	1193.0	1123.3	1101.1	1099.3
17.5°	1945.2	1956.6	1869.2	1702.6	1505.9	1272.5	1061.4	962.1	938.0	943.7	944.8
20°	1985.3	1985.3	1844.0	1614.1	1317.8	997.5	864.2	862.6	879.6	896.8	900.2
22.5°	2029.2	2003.0	1799.8	1488.8	1051.2	816.2	796.6	812.7	832.2	851.1	853.8
25°	2083.6	2017.2	1738.7	1298.9	826.4	741.2	748.6	761.9	771.6	783.5	785.3
27.5°	2144.3	2035.5	1658.0	1037.5	717.1	694.3	700.0	704.6	703.6	708.0	709.2
30°	2216.8	2056.7	1547.7	811.0	672.0	654.2	644.1	640.0	640.0	647.4	650.4
32.5°	2314.0	2088.1	1389.1	694.8	650.4	625.7	592.5	577.7	583.4	608.5	614.4
35°	2421.0	2121.8	1174.8	655.5	645.7	612.6	561.1	533.7	534.2	557.7	565.0
37.5°	2537.7	2164.7	939.6	647.9	656.0	613.2	544.6	506.7	491.4	491.4	494.2
40°	2687.0	2208.8	760.7	653.2	677.7	620.0	535.8	485.5	442.1	443.3	445.5
42.5°	2881.5	2246.7	664.6	663.9	704.0	629.2	535.3	457.5	419.8	445.5	468.9
45°	3097.6	2265.4	622.3	673.8	725.2	634.8	526.1	452.9	422.7	499.3	544.0
47.5°	3346.4	2254.6	598.8	677.2	730.3	634.8	515.8	463.9	442.7	578.1	630.3
50°	3619.2	2223.1	576.0	670.3	728.6	633.8	525.6	474.8	450.1	592.0	627.9
52.5°	3940.1	2196.8	551.9	655.5	716.7	627.5	537.0	470.2	426.6	538.2	563.3
55°	4306.1	2204.3	525.0	634.3	697.8	615.3	533.1	451.8	402.1	474.1	489.5
57.5°	4774.0	2293.0	493.0	607.4	672.0	595.3	518.7	443.3	394.6	430.1	439.2
60°	5296.1	2447.3	452.9	580.6	640.0	563.3	507.9	447.3	398.0	426.6	431.2
62.5°	5679.4	2537.2	418.7	541.0	596.6	527.9	494.2	452.3	407.2	438.7	437.6
65°	5783.5	2389.5	375.9	483.3	537.6	490.7	477.0	458.1	411.2	448.4	443.3
66°	5637.7	2230.5	356.8	456.3	507.9	472.4	468.5	457.5	409.4	449.5	441.0
67.5°	5283.7	1904.5	324.3	417.0	460.4	445.0	454.7	452.3	405.0	448.4	436.3
70°	4309.0	1299.5	277.3	347.1	383.1	391.8	428.4	434.2	390.0	428.4	402.1
72.5°	3010.7	791.5	245.3	269.4	309.9	334.0	392.4	409.0	370.0	374.1	348.9
75°	1455.1	420.3	222.5	208.8	240.7	279.2	348.9	374.7	338.7	312.9	303.6
77.5°	453.6	256.7	188.7	168.2	188.7	225.4	291.7	328.3	301.4	261.9	258.5
80°	243.6	188.7	145.3	134.9	149.3	176.7	229.3	274.0	259.2	235.0	209.9
82.5°	160.6	122.3	107.5	104.7	113.8	134.9	170.5	227.0	227.0	201.3	146.5
85°	83.0	74.9	73.8	73.8	79.5	89.8	116.2	175.0	186.5	106.4	88.0
87.5°	41.2	42.8	40.1	41.7	44.6	44.0	55.4	88.0	105.2	64.6	53.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)