

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: P269266

Luminaire Tested: **GLEON-AF-04-LED-E1-T3-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269266
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-04-LED-E1-T3-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13747.6 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

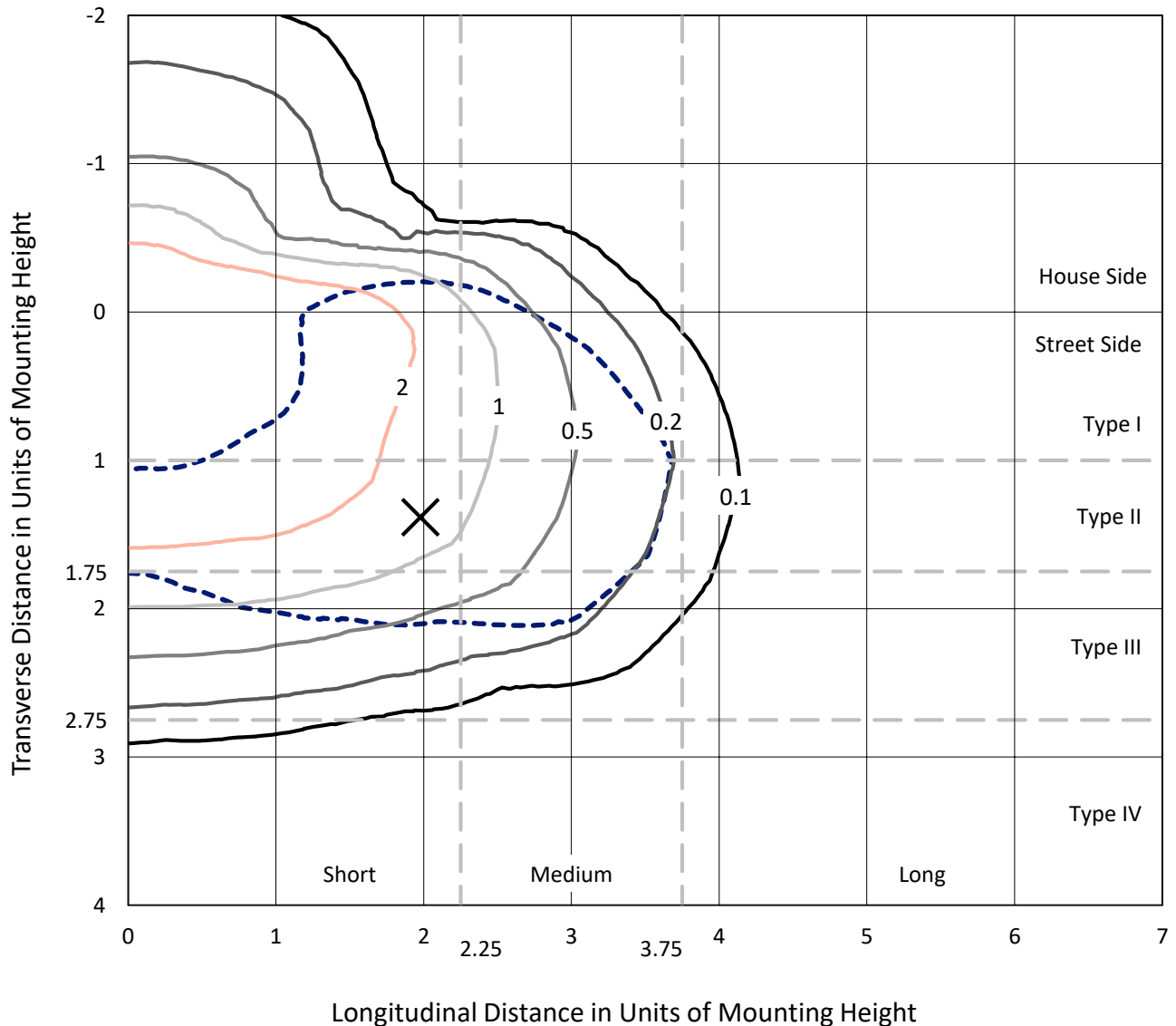
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

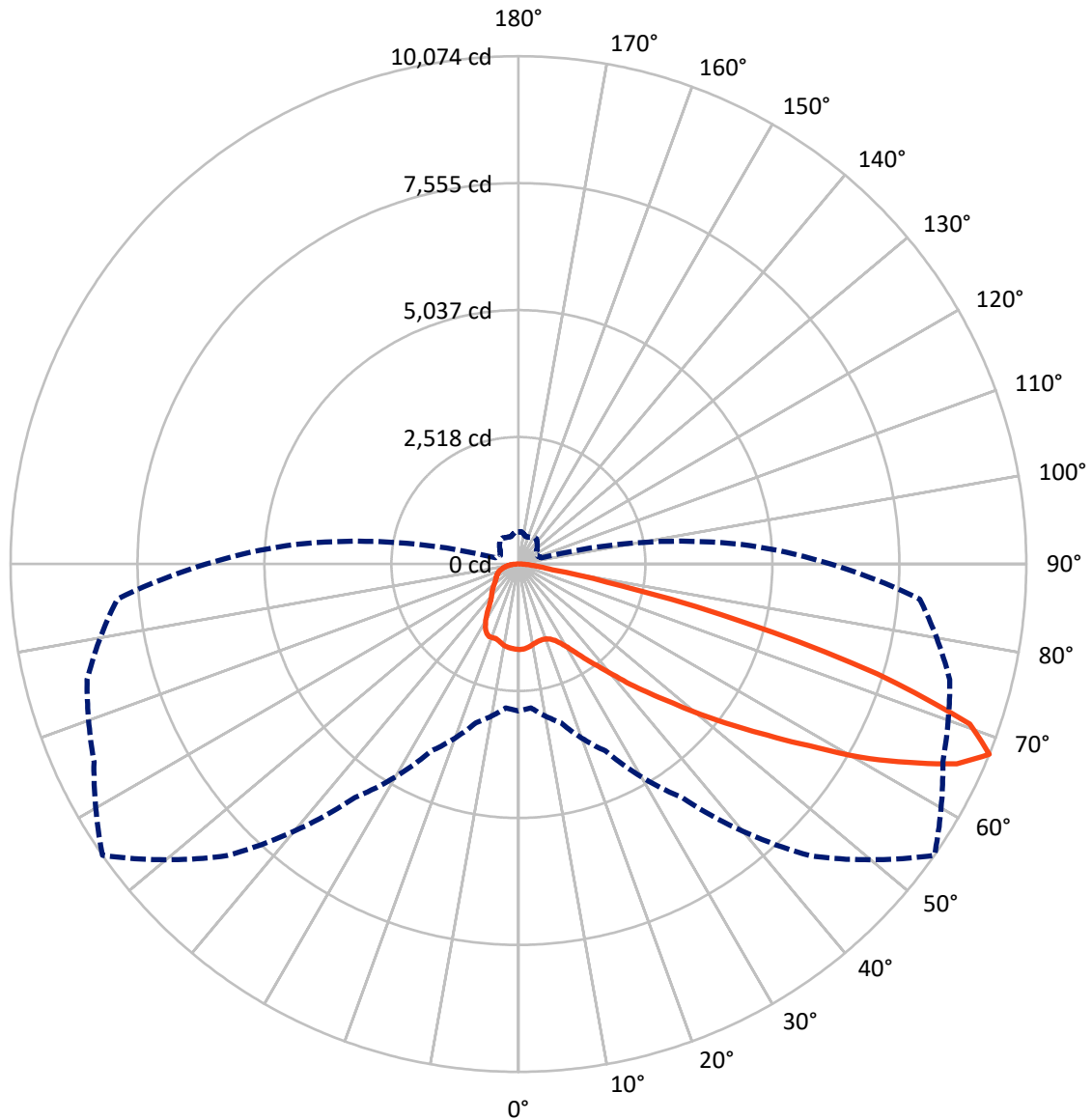
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.4 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2969.8	0.0	2969.8
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	10777.8	0.0	10777.8
	% Fixture	78.4	0.0	78.4
Total	Lumens	13747.6	0.0	13747.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.2	1.2
10°-20°	448.1	3.3
20°-30°	750.7	5.5
30°-40°	1234.4	9.0
40°-50°	2078.0	15.1
50°-60°	3270.6	23.8
60°-70°	3903.0	28.4
70°-80°	1676.0	12.2
80°-90°	228.5	1.7
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°	13747.6	100.0
0°-180°	13747.6	100.0



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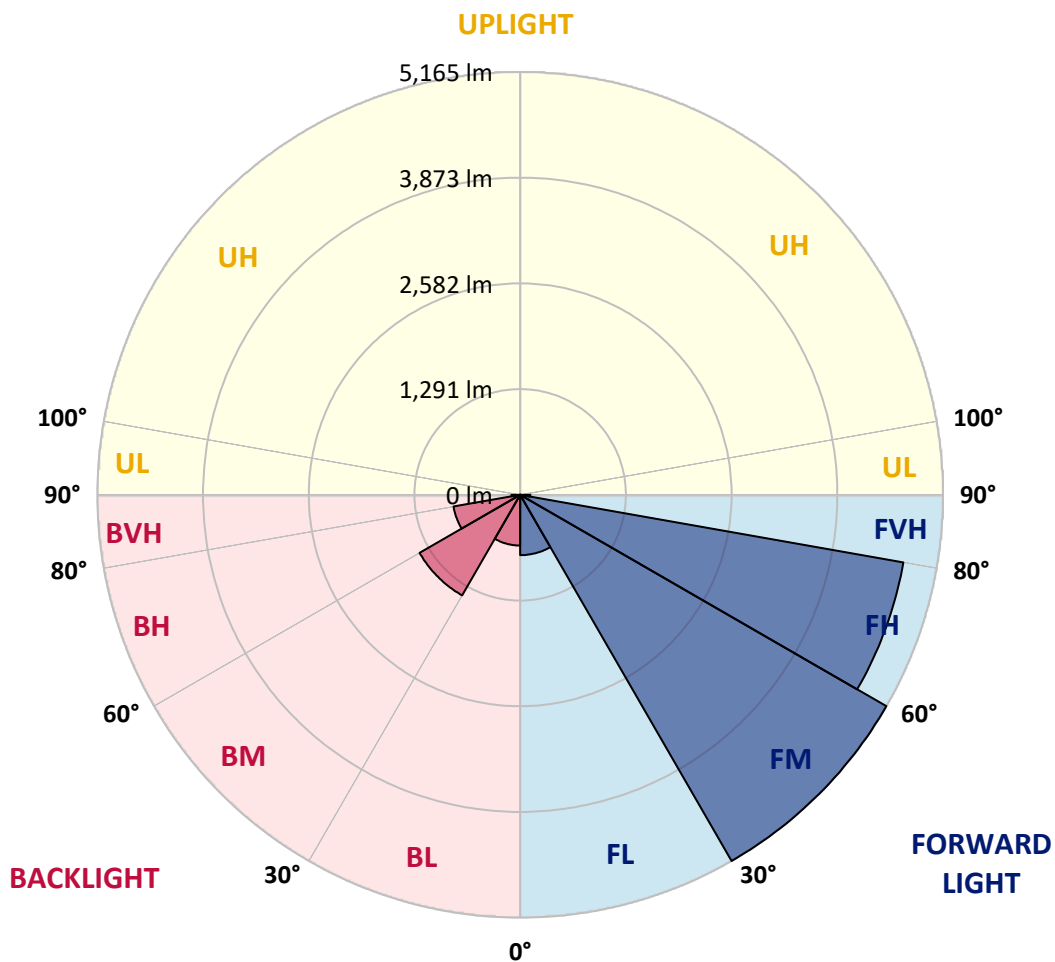
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	736.9	5.4			
FM	(30°-60°)	5164.6	37.6			
FH	(60°-80°)	4752.6	34.6			G2/5000
FVH	(80°-90°)	123.7	0.9			G2/225
BL	(0°-30°)	620.1	4.5	B2/1000		
BM	(30°-60°)	1418.3	10.3	B2/2500		
BH	(60°-80°)	826.5	6.0	B2/1000		G2/1000
BVH	(80°-90°)	104.8	0.8			G2/225
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°	85°	90°
0°	1695.2	1695.2	1695.2	1695.2	1695.2	1695.2	1695.2	1695.2	1695.2	1695.2	1695.2
2.5°	1680.5	1681.3	1682.6	1687.9	1692.5	1691.2	1691.9	1689.3	1688.6	1684.6	1688.6
5°	1659.3	1661.3	1662.0	1670.7	1676.0	1677.2	1675.2	1671.9	1668.1	1664.0	1665.9
7.5°	1610.9	1616.2	1616.9	1628.8	1637.5	1648.7	1649.4	1650.0	1648.1	1645.4	1649.4
10°	1580.4	1581.6	1581.0	1589.6	1596.3	1609.0	1616.2	1628.8	1634.1	1635.5	1638.1
12.5°	1578.3	1577.1	1575.1	1575.1	1573.0	1578.3	1591.6	1609.6	1622.2	1626.2	1629.4
15°	1599.6	1599.0	1592.3	1582.4	1569.7	1565.7	1577.1	1596.9	1613.5	1622.2	1625.6
17.5°	1647.4	1643.4	1632.8	1610.2	1583.1	1572.5	1573.7	1590.3	1609.6	1620.8	1624.1
20°	1735.0	1735.0	1712.4	1669.9	1621.5	1596.3	1584.3	1594.3	1612.8	1628.2	1632.8
22.5°	1886.5	1887.8	1850.0	1780.3	1698.5	1644.7	1615.0	1612.8	1634.8	1652.1	1657.5
25°	2101.0	2095.7	2042.4	1942.9	1818.8	1729.7	1677.9	1665.9	1684.6	1703.8	1710.6
27.5°	2350.7	2331.3	2268.3	2148.0	1987.4	1857.2	1777.6	1758.3	1776.3	1798.1	1804.8
30°	2597.5	2577.6	2502.7	2371.2	2192.6	2028.0	1913.7	1882.5	1907.7	1938.9	1942.9
32.5°	2844.7	2844.7	2761.0	2607.6	2413.0	2231.7	2094.9	2057.7	2099.6	2137.4	2146.1
35°	3140.1	3141.5	3060.4	2875.8	2666.7	2474.8	2324.1	2296.8	2359.8	2386.4	2407.1
37.5°	3503.3	3510.7	3406.5	3183.4	2954.2	2752.3	2573.0	2535.8	2598.9	2671.3	2737.8
40°	3895.8	3905.1	3790.2	3515.2	3286.2	3075.1	2881.1	2814.1	2919.0	3057.1	3142.8
42.5°	4270.4	4318.2	4207.2	3924.3	3678.0	3459.6	3263.0	3165.4	3296.8	3505.4	3579.7
45°	4811.4	4845.9	4652.7	4396.5	4164.7	3920.4	3660.1	3557.1	3741.0	4004.0	4019.2
47.5°	5172.0	5146.1	5047.8	4888.4	4741.8	4513.4	4121.6	4008.6	4253.0	4562.4	4476.9
50°	5363.9	5371.9	5358.6	5367.9	5373.2	5229.8	4687.3	4532.6	4824.1	5198.0	5000.8
52.5°	5543.3	5490.1	5533.9	5751.7	6014.6	5961.5	5302.9	5141.4	5436.4	5903.1	5554.5
55°	5539.2	5458.2	5600.9	5985.4	6555.8	6616.9	5994.1	5808.1	6083.7	6659.5	6141.5
57.5°	5343.3	5347.3	5567.1	6070.4	6932.9	7233.2	6796.1	6517.4	6770.3	7425.7	6677.3
60°	5073.7	5110.3	5427.0	6056.6	7235.0	7738.4	7780.3	7281.7	7442.9	8122.3	7121.0
62.5°	4638.8	4677.4	5114.2	5911.7	7189.2	8225.2	8670.0	8148.7	8146.1	8544.6	7251.1
65°	3952.9	3941.7	4400.4	5370.5	6804.8	8585.0	9553.8	8898.5	8676.0	8551.1	6989.4
67.5°	2915.0	2864.5	3258.3	4090.3	5656.1	8182.0	10073.8	9289.0	8856.6	7988.7	6190.0
70°	1512.7	1462.1	1780.9	2388.5	3719.8	6385.8	9498.0	9087.1	8457.5	6696.5	4849.3
72.5°	646.8	638.2	767.6	1047.9	1799.5	3683.3	7447.6	7865.3	7257.0	4989.4	3334.0
75°	434.9	432.3	480.8	571.1	809.5	1494.7	4660.8	5583.1	5309.4	3093.7	1875.2
77.5°	341.3	338.0	366.6	410.3	524.6	589.6	2068.3	2997.4	2774.2	1346.6	820.7
80°	266.9	264.3	282.2	306.1	377.2	371.9	680.6	1192.6	923.0	515.9	399.0
82.5°	210.6	210.6	225.0	225.7	267.5	253.6	355.3	525.1	460.8	300.8	244.3
85°	192.5	192.5	207.9	168.6	174.6	160.0	220.4	311.4	292.2	123.4	106.2
87.5°	96.9	94.3	174.6	149.4	95.0	85.0	107.5	150.7	162.1	68.5	53.1
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1695.2	1695.2	1695.2	1695.2	1695.2	1695.2	1695.2	1695.2	1695.2	1695.2
2.5°	1687.2	1686.6	1687.9	1688.6	1693.9	1701.2	1704.5	1709.1	1711.8	1710.6
5°	1667.3	1668.7	1674.0	1677.9	1687.2	1699.2	1705.8	1711.2	1715.9	1713.8
7.5°	1650.7	1654.0	1662.0	1665.4	1670.7	1674.0	1673.4	1675.2	1679.3	1674.6
10°	1641.5	1645.4	1651.4	1646.8	1634.1	1616.2	1599.6	1591.0	1593.7	1590.3
12.5°	1632.1	1637.5	1632.8	1610.9	1575.6	1552.5	1539.9	1541.2	1547.2	1548.5
15°	1626.8	1628.8	1609.0	1567.7	1531.9	1528.6	1535.3	1533.9	1534.6	1534.6
17.5°	1626.8	1621.5	1584.3	1543.2	1527.8	1521.9	1501.3	1475.5	1464.1	1460.1
20°	1635.5	1621.5	1576.3	1549.1	1515.9	1464.9	1410.3	1362.5	1341.3	1335.3
22.5°	1661.3	1637.5	1599.0	1551.8	1457.5	1371.8	1285.6	1228.4	1190.0	1183.2
25°	1713.8	1687.2	1643.4	1516.6	1364.5	1242.4	1144.1	1080.3	1041.9	1036.6
27.5°	1805.5	1788.2	1667.3	1438.9	1241.1	1110.2	1019.2	970.1	941.6	939.5
30°	1943.6	1934.9	1655.3	1324.0	1088.9	982.0	938.3	909.8	888.5	887.7
32.5°	2164.0	2094.3	1616.2	1184.0	950.1	891.1	873.2	855.9	839.3	839.3
35°	2447.5	2223.1	1541.9	1033.9	865.8	840.6	818.0	790.9	768.9	767.6
37.5°	2781.0	2302.8	1408.4	912.9	826.0	806.8	773.6	733.0	694.6	687.9
40°	3117.6	2326.7	1220.4	838.7	800.7	772.9	732.4	684.6	647.4	645.4
42.5°	3426.3	2280.8	1021.3	787.5	775.5	738.3	695.8	653.3	624.2	623.6
45°	3685.2	2162.0	853.8	739.0	748.9	707.1	669.3	634.8	612.3	607.6
47.5°	3928.9	1994.1	736.4	687.9	722.4	689.9	658.1	625.5	603.7	600.2
50°	4211.9	1812.8	654.1	638.2	699.2	683.9	667.4	633.5	597.0	593.1
52.5°	4554.4	1656.0	589.6	594.3	681.3	692.0	691.2	656.0	592.3	587.0
55°	4936.9	1482.1	541.1	558.4	674.0	706.4	697.3	677.3	596.3	588.3
57.5°	5313.5	1278.8	507.4	531.2	663.4	705.2	668.7	640.1	605.5	594.3
60°	5595.6	1006.0	481.4	507.4	640.1	683.3	637.4	599.6	603.7	594.9
62.5°	5614.2	777.6	450.2	486.7	604.9	661.3	616.9	581.7	612.3	604.3
65°	5284.2	587.6	420.3	462.2	567.1	647.4	597.0	571.7	630.2	621.4
67.5°	4448.9	472.8	395.1	436.9	529.2	618.3	579.0	562.3	646.2	630.8
70°	3211.8	403.1	370.6	406.4	495.3	584.9	563.1	545.8	602.9	579.0
72.5°	1977.3	349.4	342.7	365.9	469.5	550.5	539.3	514.5	543.1	523.9
75°	987.3	302.8	311.4	326.1	433.0	511.2	499.4	474.8	478.7	474.8
77.5°	472.8	259.0	274.9	286.2	385.8	466.8	454.3	428.9	424.3	425.0
80°	299.4	216.5	231.8	239.7	344.6	414.9	402.4	377.2	430.3	399.0
82.5°	187.2	176.0	179.9	194.6	300.2	361.2	344.6	322.0	387.8	306.9
85°	103.6	122.9	128.2	140.8	231.0	302.1	285.5	256.9	230.4	226.5
87.5°	61.8	73.0	75.0	84.4	155.3	218.5	193.2	183.3	152.1	151.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)