

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: P191460

Luminaire Tested: **GLEON-AF-02-LED-E1-T3-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191460
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-02-LED-E1-T3-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13669.7 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' 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

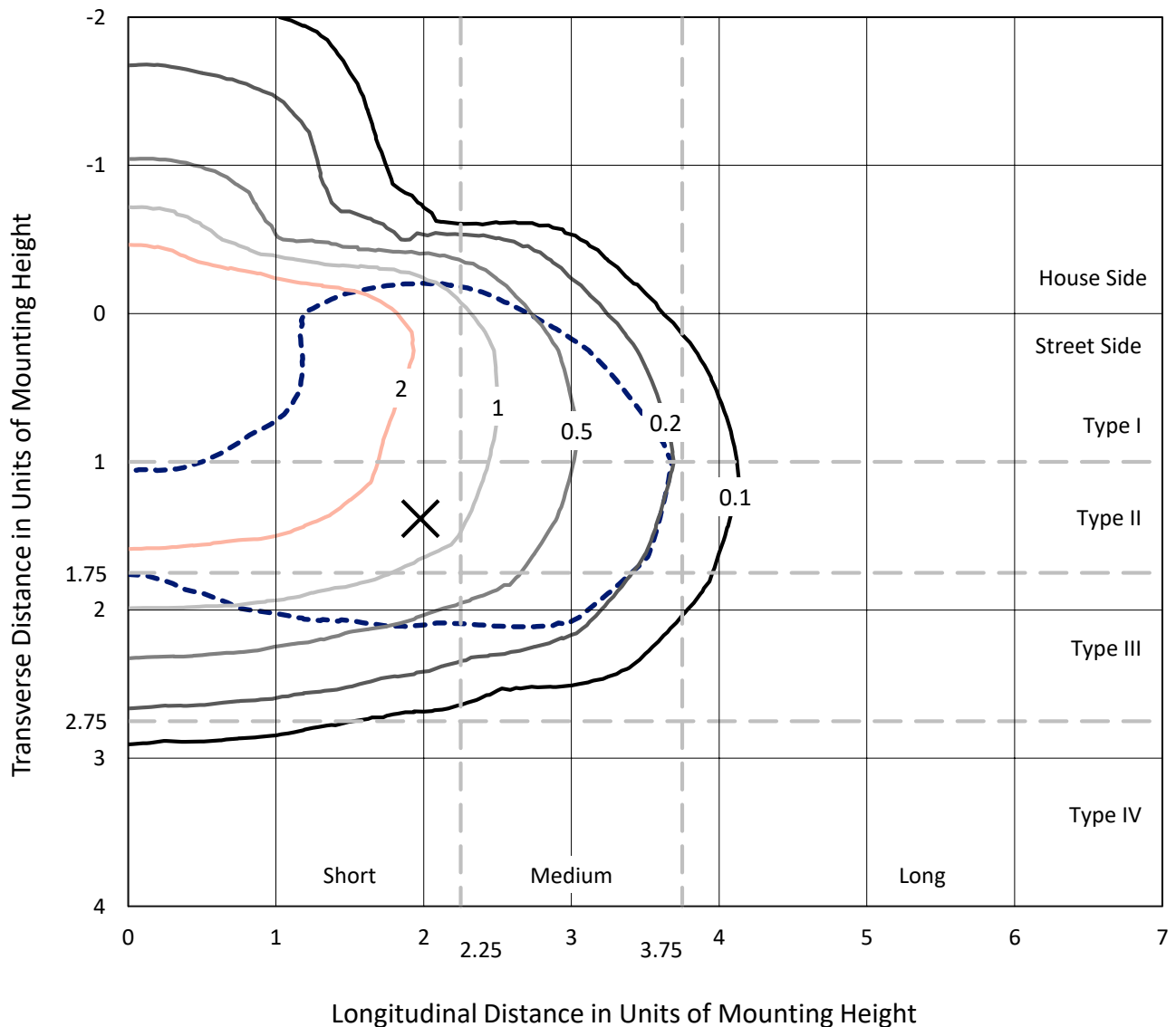


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

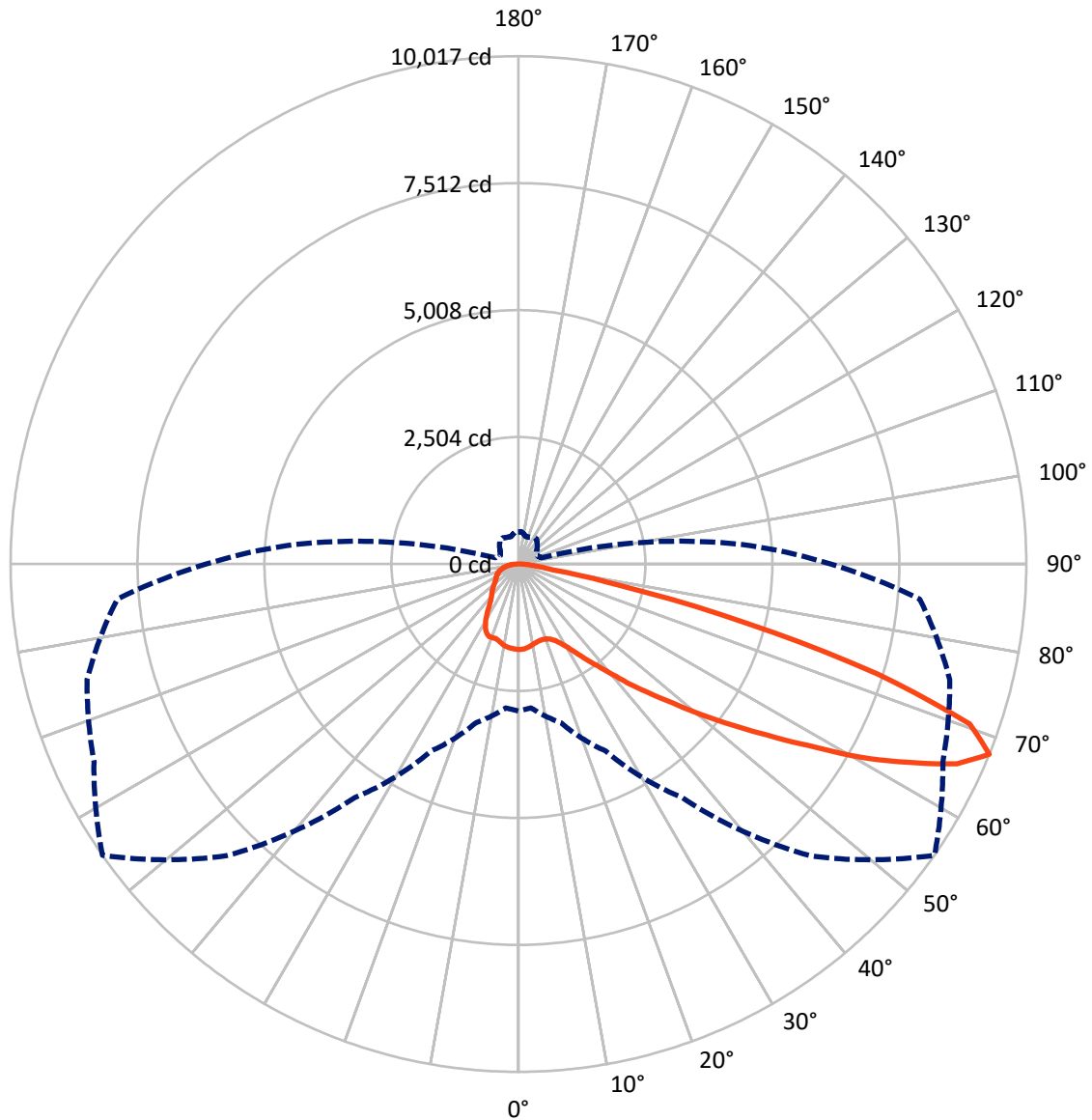


Based on 20 foot mounting height. Maximum calculated value = 4.3 fc
 Type III - Short - Full Cutoff

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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	2952.9	0.0	2952.9
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	10716.7	0.0	10716.7
	% Fixture	78.4	0.0	78.4
Total	Lumens	13669.7	0.0	13669.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.3	1.2
10°-20°	445.6	3.3
20°-30°	746.4	5.5
30°-40°	1227.5	9.0
40°-50°	2066.2	15.1
50°-60°	3252.0	23.8
60°-70°	3880.9	28.4
70°-80°	1666.5	12.2
80°-90°	227.2	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°	13669.7	100.0
0°-180°	13669.7	100.0



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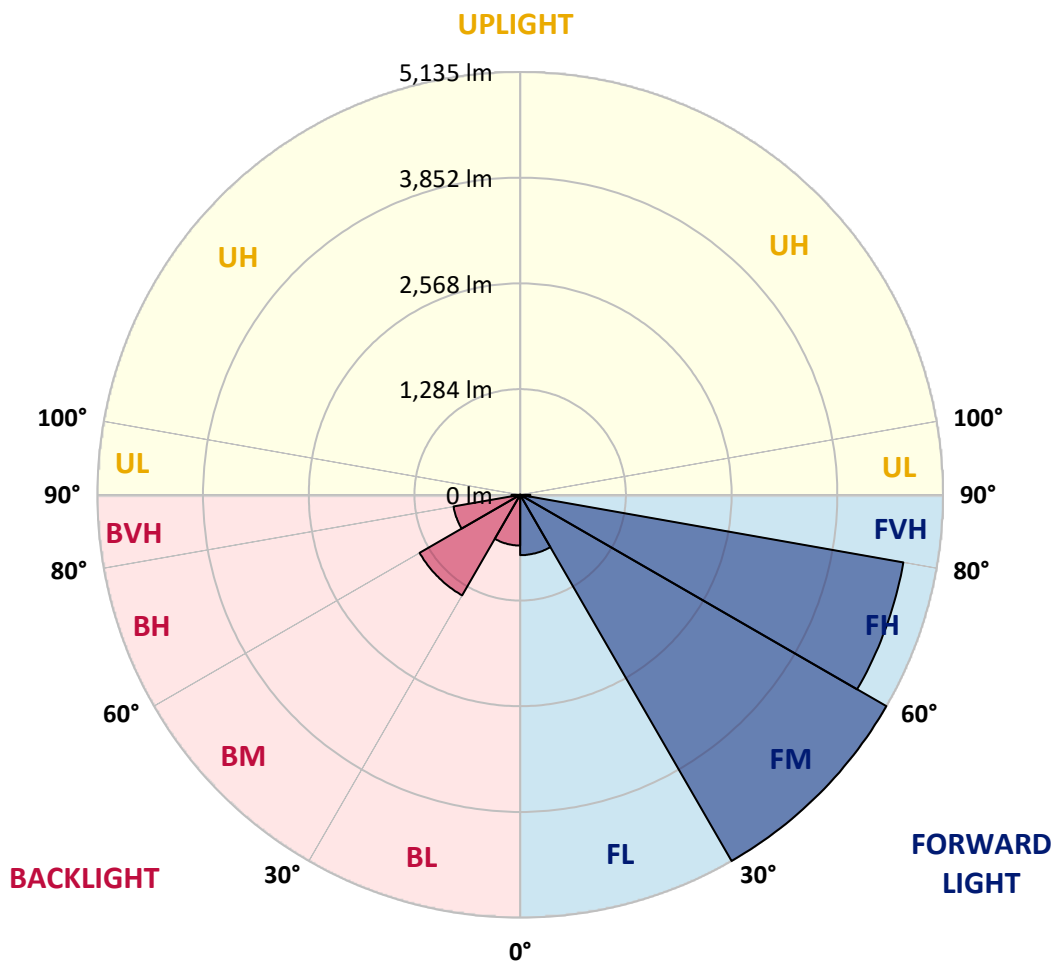
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	732.7	5.4			
FM (30°-60°)	5135.4	37.6			
FH (60°-80°)	4725.7	34.6			G2/5000
FVH (80°-90°)	123.0	0.9			G2/225
BL (0°-30°)	616.6	4.5	B2/1000		
BM (30°-60°)	1410.3	10.3	B2/2500		
BH (60°-80°)	821.8	6.0	B2/1000		G2/1000
BVH (80°-90°)	104.2	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°	1685.6	1685.6	1685.6	1685.6	1685.6	1685.6	1685.6	1685.6	1685.6	1685.6	1685.6
2.5°	1671.1	1671.7	1673.0	1678.4	1683.0	1681.6	1682.3	1679.7	1679.0	1675.1	1679.0
5°	1650.0	1652.0	1652.6	1661.2	1666.5	1667.8	1665.8	1662.5	1658.5	1654.6	1656.6
7.5°	1601.7	1607.1	1607.7	1619.6	1628.2	1639.4	1640.1	1640.7	1638.8	1636.1	1640.1
10°	1571.4	1572.7	1572.1	1580.7	1587.2	1599.8	1607.1	1619.6	1624.9	1626.2	1628.8
12.5°	1569.4	1568.1	1566.1	1566.1	1564.1	1569.4	1582.6	1600.4	1613.0	1617.0	1620.3
15°	1590.6	1589.9	1583.3	1573.4	1560.8	1556.8	1568.1	1587.9	1604.4	1613.0	1616.3
17.5°	1638.1	1634.2	1623.5	1601.1	1574.0	1563.5	1564.8	1581.3	1600.4	1611.7	1614.9
20°	1725.2	1725.2	1702.8	1660.6	1612.4	1587.2	1575.3	1585.3	1603.8	1618.9	1623.5
22.5°	1875.8	1877.1	1839.5	1770.1	1688.9	1635.5	1605.7	1603.8	1625.6	1642.8	1648.0
25°	2089.1	2083.8	2031.0	1931.9	1808.5	1720.0	1668.4	1656.6	1675.1	1694.2	1700.8
27.5°	2337.3	2318.1	2255.4	2135.9	1976.1	1846.7	1767.5	1748.3	1766.1	1787.9	1794.6
30°	2583.0	2563.1	2488.5	2357.8	2180.1	2016.4	1902.9	1871.8	1896.9	1928.0	1931.9
32.5°	2828.6	2828.6	2745.3	2592.8	2399.3	2219.1	2083.1	2046.1	2087.7	2125.4	2134.0
35°	3122.4	3123.7	3043.1	2859.6	2651.6	2460.7	2310.8	2283.8	2346.5	2372.9	2393.4
37.5°	3483.5	3490.7	3387.1	3165.2	2937.5	2736.7	2558.5	2521.5	2584.2	2656.2	2722.2
40°	3873.7	3882.9	3768.8	3495.4	3267.6	3057.6	2864.9	2798.2	2902.4	3039.8	3125.0
42.5°	4246.1	4293.6	4183.4	3902.0	3657.2	3439.9	3244.5	3147.4	3278.1	3485.5	3559.5
45°	4784.1	4818.5	4626.4	4371.5	4141.1	3898.2	3639.4	3537.0	3719.9	3981.3	3996.5
47.5°	5142.7	5116.9	5019.2	4860.8	4714.9	4487.7	4098.1	3985.9	4228.9	4536.6	4451.4
50°	5333.6	5341.4	5328.2	5337.5	5342.8	5200.2	4660.7	4506.9	4796.7	5168.5	4972.4
52.5°	5511.8	5459.0	5502.6	5719.1	5980.6	5927.7	5272.8	5112.3	5405.5	5869.6	5523.0
55°	5507.8	5427.3	5569.3	5951.5	6518.7	6579.4	5960.1	5775.2	6049.2	6621.7	6106.7
57.5°	5313.0	5317.0	5535.6	6036.0	6893.7	7192.2	6757.7	6480.4	6731.9	7383.6	6639.5
60°	5045.0	5081.3	5396.3	6022.1	7194.1	7694.5	7736.2	7240.3	7400.7	8076.2	7080.6
62.5°	4612.5	4650.8	5085.3	5878.2	7148.6	8178.5	8620.9	8102.6	8099.9	8496.1	7210.0
65°	3930.5	3919.2	4375.5	5340.1	6766.3	8536.4	9499.7	8848.0	8626.9	8502.8	6949.8
67.5°	2898.5	2848.3	3239.9	4067.2	5624.0	8135.6	10016.6	9236.2	8806.5	7943.5	6154.9
70°	1504.0	1453.9	1770.8	2374.9	3698.7	6349.7	9444.2	9035.5	8409.6	6658.6	4821.8
72.5°	643.1	634.5	763.2	1041.9	1789.2	3662.4	7405.3	7820.7	7215.9	4961.1	3315.1
75°	432.5	429.8	478.0	567.8	804.9	1486.2	4634.3	5551.3	5279.3	3076.1	1864.5
77.5°	339.4	336.0	364.5	408.1	521.6	586.3	2056.6	2980.4	2758.5	1338.9	816.1
80°	265.5	262.8	280.6	304.3	375.0	369.7	676.8	1185.8	917.8	513.0	396.8
82.5°	209.3	209.3	223.8	224.4	266.1	252.3	353.2	522.2	458.2	299.1	243.0
85°	191.5	191.5	206.6	167.7	173.7	159.2	219.2	309.6	290.5	122.9	105.7
87.5°	96.4	93.8	173.7	148.5	94.4	84.5	107.0	149.9	161.1	68.0	52.8
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1685.6	1685.6	1685.6	1685.6	1685.6	1685.6	1685.6	1685.6	1685.6	1685.6
2.5°	1677.7	1677.0	1678.4	1679.0	1684.3	1691.6	1694.8	1699.5	1702.1	1700.8
5°	1657.9	1659.2	1664.4	1668.4	1677.7	1689.6	1696.2	1701.5	1706.1	1704.1
7.5°	1641.4	1644.7	1652.6	1656.0	1661.2	1664.4	1663.8	1665.8	1669.8	1665.2
10°	1632.1	1636.1	1642.0	1637.4	1624.9	1607.1	1590.6	1582.0	1584.7	1581.3
12.5°	1622.9	1628.2	1623.5	1601.7	1566.8	1543.6	1531.2	1532.5	1538.4	1539.7
15°	1617.6	1619.6	1599.8	1558.9	1523.2	1519.9	1526.5	1525.2	1525.8	1525.8
17.5°	1617.6	1612.4	1575.3	1534.4	1519.3	1513.3	1492.8	1467.1	1455.9	1451.9
20°	1626.2	1612.4	1567.5	1540.4	1507.3	1456.5	1402.4	1354.8	1333.7	1327.8
22.5°	1652.0	1628.2	1589.9	1543.0	1449.2	1364.1	1278.3	1221.5	1183.1	1176.6
25°	1704.1	1677.7	1634.2	1508.0	1356.8	1235.3	1137.6	1074.2	1035.9	1030.6
27.5°	1795.2	1778.1	1657.9	1430.8	1234.0	1104.0	1013.4	964.6	936.2	934.3
30°	1932.6	1924.0	1646.0	1316.5	1082.8	976.5	932.9	904.6	883.4	882.8
32.5°	2151.8	2082.4	1607.1	1177.2	944.8	886.1	868.3	851.1	834.5	834.5
35°	2433.7	2210.5	1533.1	1028.0	861.0	835.9	813.5	786.3	764.6	763.2
37.5°	2765.1	2289.8	1400.4	907.9	821.3	802.2	769.2	729.0	690.6	684.0
40°	3099.8	2313.5	1213.5	833.9	796.3	768.5	728.2	680.7	643.7	641.8
42.5°	3406.9	2268.0	1015.5	783.1	771.2	734.2	691.9	649.7	620.6	620.0
45°	3664.4	2149.7	849.0	734.9	744.8	703.2	665.5	631.2	608.8	604.2
47.5°	3906.8	1982.8	732.2	684.0	718.3	686.0	654.3	622.0	600.2	596.9
50°	4188.0	1802.4	650.4	634.5	695.2	680.1	663.6	629.8	593.5	589.6
52.5°	4528.7	1646.6	586.3	591.0	677.4	687.9	687.3	652.3	588.9	583.7
55°	4908.9	1473.7	538.1	555.3	670.1	702.5	693.3	673.4	592.9	585.0
57.5°	5283.3	1271.6	504.4	528.3	659.6	701.2	664.9	636.5	602.1	591.0
60°	5563.9	1000.2	478.6	504.4	636.5	679.4	633.8	596.2	600.2	591.6
62.5°	5582.4	773.1	447.6	484.0	601.5	657.7	613.4	578.4	608.8	600.8
65°	5254.3	584.3	418.0	459.5	563.9	643.7	593.5	568.5	626.6	618.0
67.5°	4423.6	470.1	392.8	434.4	526.2	614.7	575.7	559.2	642.4	627.3
70°	3193.7	400.8	368.5	404.1	492.6	581.6	559.9	542.8	599.6	575.7
72.5°	1966.2	347.3	340.6	363.8	466.8	547.4	536.1	511.7	540.1	521.0
75°	981.8	301.1	309.6	324.2	430.5	508.4	496.5	472.1	476.1	472.1
77.5°	470.1	257.5	273.3	284.6	383.6	464.1	451.6	426.6	421.9	422.6
80°	297.8	215.2	230.5	238.3	342.7	412.7	400.1	375.0	427.8	396.8
82.5°	186.2	174.9	178.9	193.4	298.4	359.2	342.7	320.2	385.6	305.0
85°	103.0	122.1	127.5	139.9	229.8	300.4	283.9	255.5	229.1	225.2
87.5°	61.4	72.6	74.6	83.9	154.5	217.2	192.1	182.2	151.2	150.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)