

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: P192260

Luminaire Tested: **GLEON-AF-02-LED-E1-T3-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192260
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-T3-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13363 lumens
Efficiency: N/A
Efficacy: 103.6 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

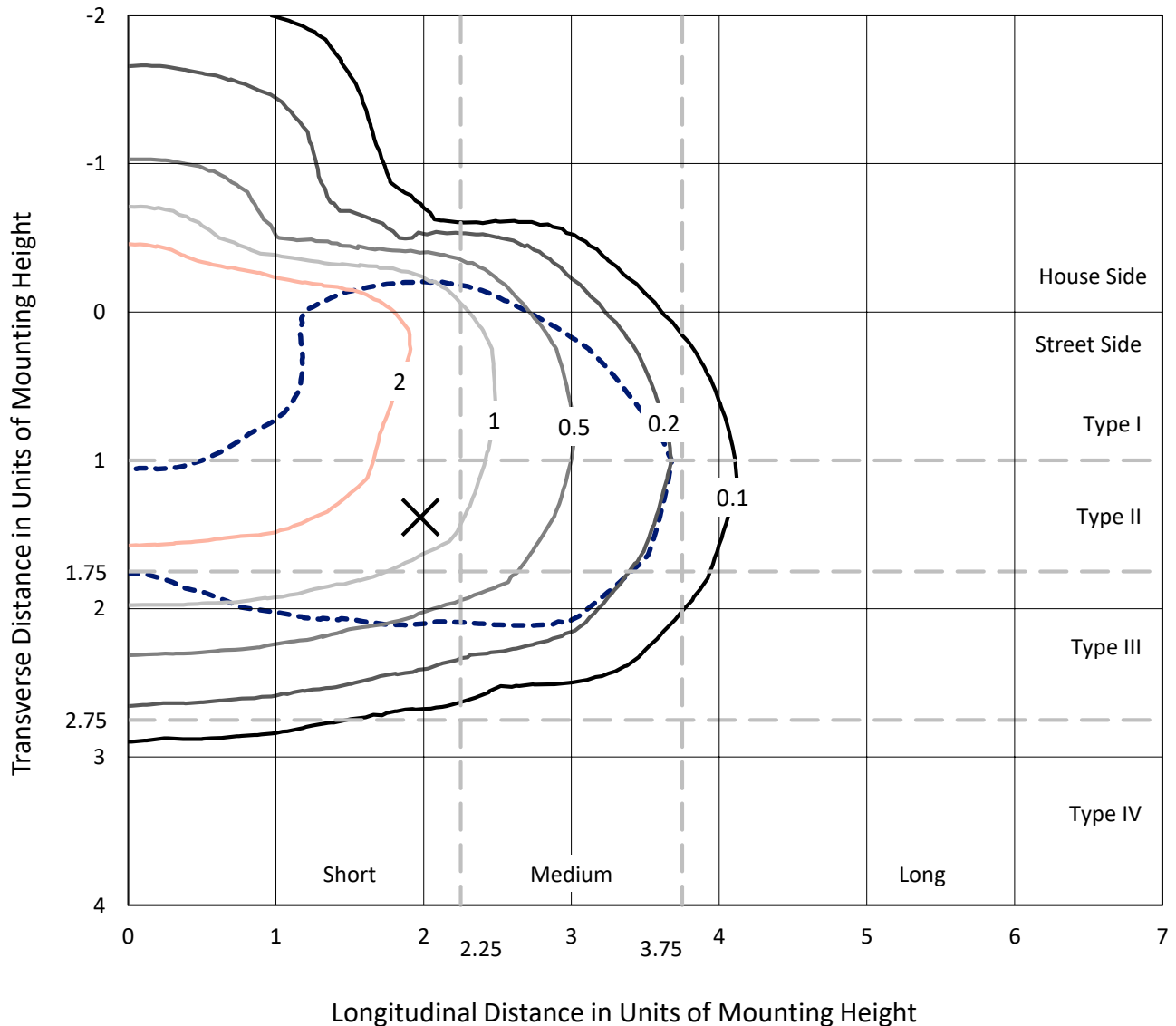


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Iso-Footcandle Lines of Horizontal Illumination

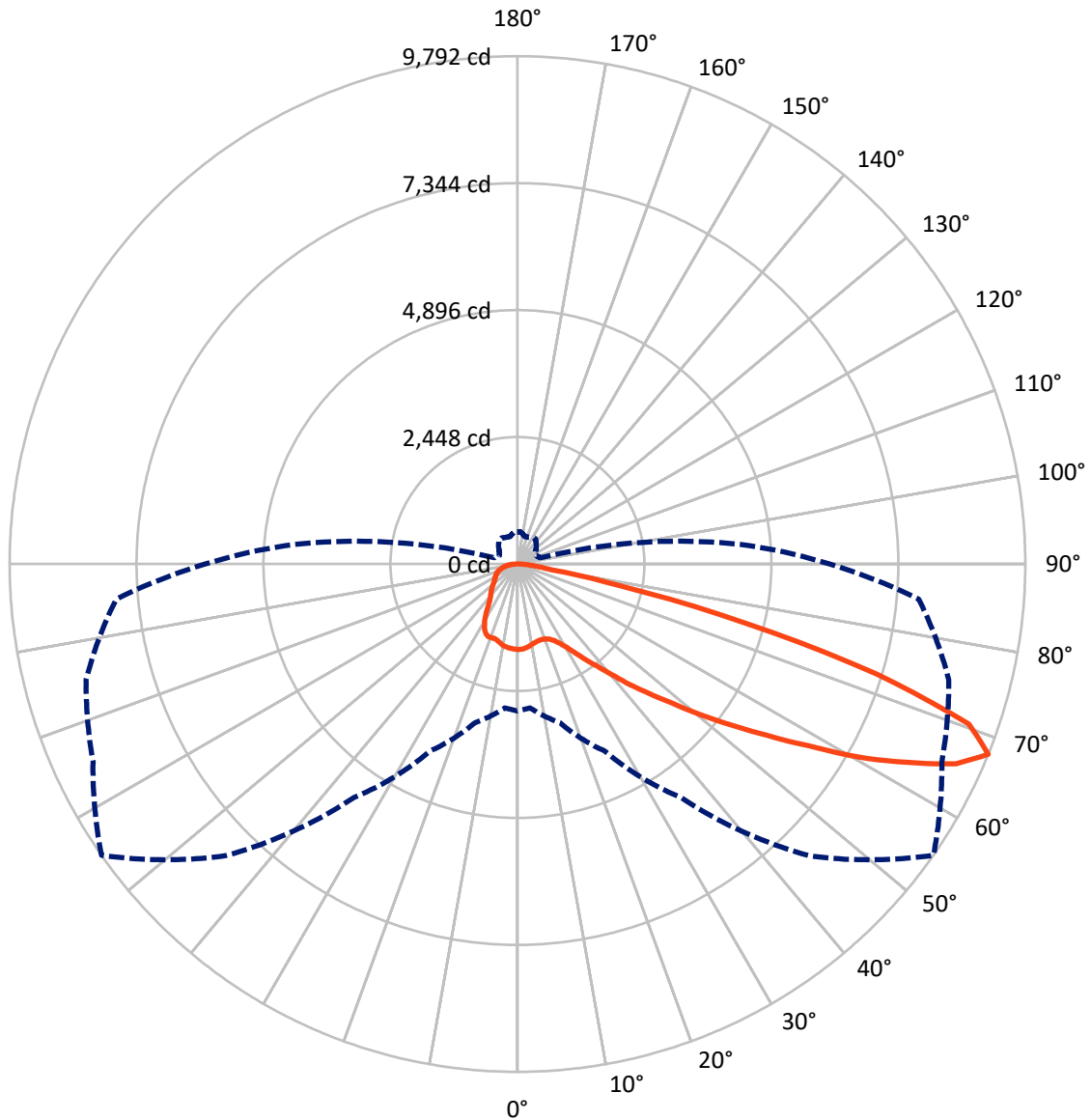
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.2 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	2886.7	0.0	2886.7
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	10476.3	0.0	10476.3
	% Fixture	78.4	0.0	78.4
Total	Lumens	13363.0	0.0	13363.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.8	1.2
10°-20°	435.6	3.3
20°-30°	729.7	5.5
30°-40°	1199.9	9.0
40°-50°	2019.8	15.1
50°-60°	3179.0	23.8
60°-70°	3793.9	28.4
70°-80°	1629.1	12.2
80°-90°	222.1	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°	13363.0	100.0
0°-180°	13363.0	100.0



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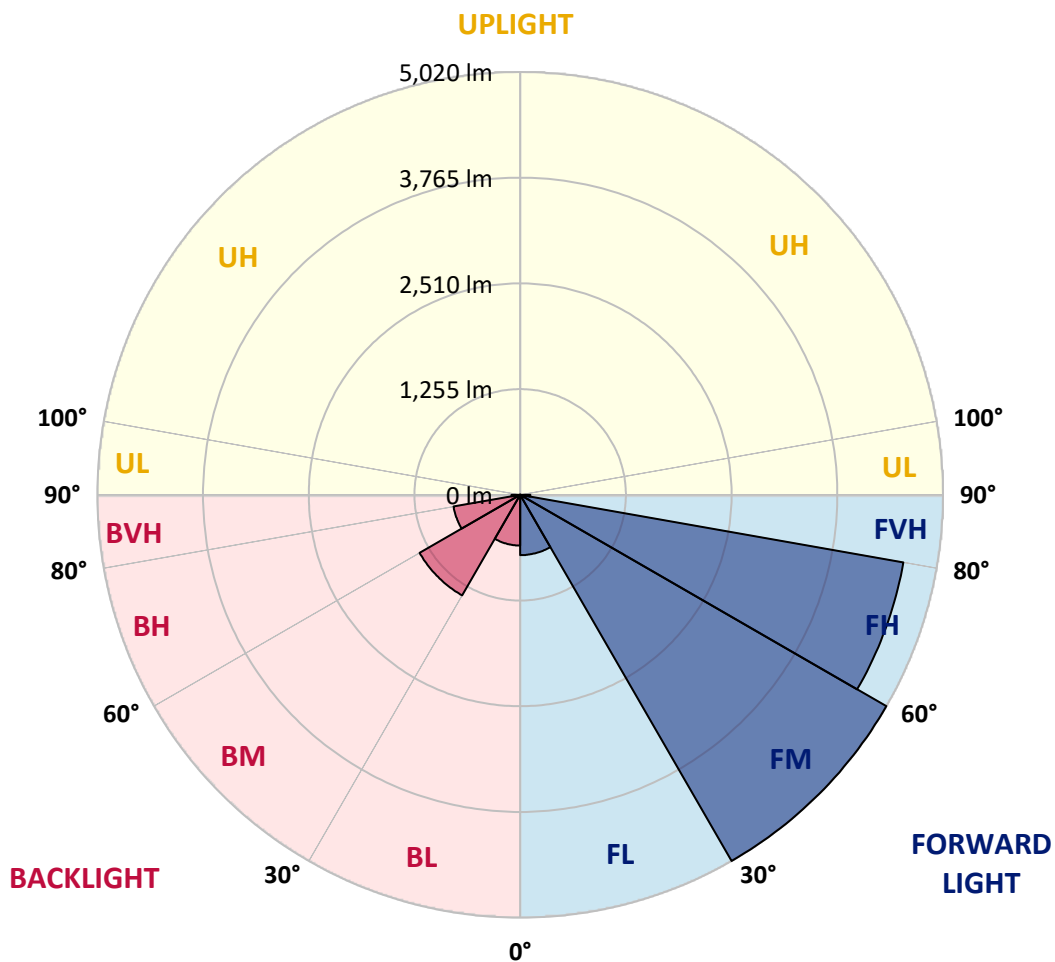
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	716.3	5.4			
FM (30°-60°)	5020.1	37.6			
FH (60°-80°)	4619.6	34.6			G2/5000
FVH (80°-90°)	120.2	0.9			G2/225
BL (0°-30°)	602.8	4.5	B2/1000		
BM (30°-60°)	1378.7	10.3	B2/2500		
BH (60°-80°)	803.4	6.0	B2/1000		G2/1000
BVH (80°-90°)	101.9	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°	1647.8	1647.8	1647.8	1647.8	1647.8	1647.8	1647.8	1647.8	1647.8	1647.8	1647.8
2.5°	1633.6	1634.2	1635.5	1640.7	1645.2	1643.9	1644.6	1642.0	1641.3	1637.5	1641.3
5°	1613.0	1614.9	1615.5	1623.9	1629.1	1630.4	1628.4	1625.2	1621.3	1617.5	1619.4
7.5°	1565.8	1571.0	1571.6	1583.3	1591.7	1602.6	1603.3	1603.9	1602.0	1599.4	1603.3
10°	1536.1	1537.4	1536.8	1545.2	1551.6	1563.9	1571.0	1583.3	1588.4	1589.7	1592.3
12.5°	1534.2	1532.9	1531.0	1531.0	1529.0	1534.2	1547.1	1564.5	1576.8	1580.7	1583.9
15°	1554.9	1554.2	1547.8	1538.1	1525.8	1521.9	1532.9	1552.3	1568.4	1576.8	1580.0
17.5°	1601.3	1597.5	1587.1	1565.2	1538.7	1528.4	1529.7	1545.8	1564.5	1575.5	1578.7
20°	1686.5	1686.5	1664.6	1623.3	1576.2	1551.6	1540.0	1549.7	1567.8	1582.6	1587.1
22.5°	1833.7	1835.0	1798.2	1730.4	1651.0	1598.8	1569.7	1567.8	1589.1	1605.9	1611.0
25°	2042.2	2037.0	1985.4	1888.6	1767.9	1681.4	1631.0	1619.4	1637.5	1656.2	1662.6
27.5°	2284.9	2266.1	2204.8	2088.0	1931.8	1805.3	1727.8	1709.1	1726.5	1747.8	1754.3
30°	2525.0	2505.6	2432.7	2304.9	2131.2	1971.2	1860.2	1829.8	1854.3	1884.7	1888.6
32.5°	2765.1	2765.1	2683.7	2534.6	2345.5	2169.3	2036.4	2000.2	2040.9	2077.7	2086.1
35°	3052.3	3053.6	2974.8	2795.4	2592.1	2405.5	2259.0	2232.6	2293.9	2319.7	2339.7
37.5°	3405.3	3412.4	3311.1	3094.2	2871.6	2675.3	2501.1	2464.9	2526.2	2596.6	2661.1
40°	3786.8	3795.8	3684.2	3417.0	3194.3	2989.0	2800.6	2735.4	2837.3	2971.6	3054.9
42.5°	4150.8	4197.3	4089.5	3814.5	3575.1	3362.7	3171.7	3076.8	3204.6	3407.3	3479.6
45°	4676.8	4710.4	4522.6	4273.4	4048.2	3810.7	3557.7	3457.6	3636.4	3892.0	3906.8
47.5°	5027.3	5002.1	4906.6	4751.7	4609.1	4387.0	4006.2	3896.5	4134.0	4434.8	4351.5
50°	5213.9	5221.6	5208.7	5217.7	5222.9	5083.5	4556.1	4405.8	4689.1	5052.5	4860.8
52.5°	5388.1	5336.5	5379.1	5590.8	5846.4	5794.7	5154.5	4997.6	5284.2	5737.9	5399.1
55°	5384.2	5305.5	5444.3	5818.0	6372.4	6431.8	5826.4	5645.6	5913.5	6473.1	5969.7
57.5°	5193.8	5197.7	5411.4	5900.6	6739.0	7030.8	6606.1	6335.0	6580.9	7217.9	6490.5
60°	4931.8	4967.3	5275.2	5887.0	7032.7	7521.9	7562.6	7077.9	7234.7	7895.0	6921.7
62.5°	4509.0	4546.5	4971.2	5746.3	6988.2	7995.0	8427.5	7920.8	7918.2	8305.5	7048.2
65°	3842.3	3831.3	4277.3	5220.3	6614.5	8344.9	9286.6	8649.5	8433.3	8312.0	6793.9
67.5°	2833.5	2784.4	3167.2	3975.9	5497.8	7953.1	9791.9	9029.0	8608.9	7765.3	6016.8
70°	1470.3	1421.3	1731.1	2321.6	3615.7	6207.2	9232.3	8832.8	8220.9	6509.2	4713.6
72.5°	628.7	620.3	746.1	1018.5	1749.1	3580.2	7239.2	7645.2	7054.0	4849.8	3240.7
75°	422.8	420.2	467.3	555.1	786.8	1452.9	4530.3	5426.8	5160.9	3007.1	1822.7
77.5°	331.8	328.5	356.3	398.9	509.9	573.1	2010.5	2913.5	2696.6	1308.9	797.8
80°	259.5	256.9	274.3	297.5	366.6	361.4	661.6	1159.2	897.2	501.5	387.9
82.5°	204.6	204.6	218.8	219.4	260.1	246.6	345.3	510.5	447.9	292.4	237.5
85°	187.2	187.2	202.0	163.9	169.8	155.6	214.3	302.7	284.0	120.1	103.3
87.5°	94.2	91.7	169.8	145.2	92.3	82.6	104.6	146.5	157.5	66.5	51.6
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°	1647.8	1647.8	1647.8	1647.8	1647.8	1647.8	1647.8	1647.8	1647.8	1647.8
2.5°	1640.1	1639.4	1640.7	1641.3	1646.5	1653.6	1656.8	1661.4	1663.9	1662.6
5°	1620.7	1622.0	1627.1	1631.0	1640.1	1651.7	1658.1	1663.3	1667.8	1665.9
7.5°	1604.6	1607.8	1615.5	1618.8	1623.9	1627.1	1626.5	1628.4	1632.3	1627.8
10°	1595.5	1599.4	1605.2	1600.7	1588.4	1571.0	1554.9	1546.5	1549.1	1545.8
12.5°	1586.5	1591.7	1587.1	1565.8	1531.6	1509.0	1496.8	1498.1	1503.9	1505.2
15°	1581.3	1583.3	1563.9	1523.9	1489.0	1485.8	1492.3	1491.0	1491.6	1491.6
17.5°	1581.3	1576.2	1540.0	1500.0	1485.2	1479.3	1459.3	1434.2	1423.2	1419.3
20°	1589.7	1576.2	1532.3	1505.8	1473.5	1423.8	1370.9	1324.4	1303.8	1298.0
22.5°	1614.9	1591.7	1554.2	1508.4	1416.7	1333.5	1249.6	1194.1	1156.6	1150.2
25°	1665.9	1640.1	1597.5	1474.2	1326.4	1207.6	1112.1	1050.1	1012.7	1007.5
27.5°	1754.9	1738.2	1620.7	1398.7	1206.3	1079.2	990.7	943.0	915.2	913.3
30°	1889.2	1880.8	1609.1	1287.0	1058.5	954.6	912.0	884.3	863.6	863.0
32.5°	2103.5	2035.7	1571.0	1150.8	923.6	866.2	848.8	832.0	815.8	815.8
35°	2379.1	2160.9	1498.7	1004.9	841.7	817.1	795.2	768.7	747.4	746.1
37.5°	2703.1	2238.4	1369.0	887.5	802.9	784.2	751.9	712.6	675.1	668.7
40°	3030.3	2261.6	1186.3	815.2	778.4	751.3	711.9	665.4	629.3	627.4
42.5°	3330.5	2217.1	992.7	765.5	753.9	717.7	676.4	635.1	606.7	606.1
45°	3582.2	2101.5	830.0	718.4	728.1	687.4	650.6	617.0	595.1	590.6
47.5°	3819.1	1938.3	715.8	668.7	702.2	670.6	639.6	608.0	586.7	583.5
50°	4094.0	1762.0	635.8	620.3	679.6	664.8	648.7	615.7	580.2	576.4
52.5°	4427.1	1609.7	573.1	577.7	662.2	672.5	671.9	637.7	575.7	570.6
55°	4798.8	1440.6	526.0	542.8	655.1	686.7	677.7	658.3	579.6	571.9
57.5°	5164.8	1243.1	493.1	516.4	644.8	685.5	650.0	622.2	588.6	577.7
60°	5439.1	977.8	467.9	493.1	622.2	664.2	619.6	582.8	586.7	578.3
62.5°	5457.2	755.8	437.6	473.1	588.0	642.9	599.6	565.4	595.1	587.3
65°	5136.4	571.2	408.6	449.2	551.2	629.3	580.2	555.7	612.5	604.1
67.5°	4324.4	459.6	384.0	424.7	514.4	600.9	562.8	546.7	628.0	613.2
70°	3122.0	391.8	360.2	395.0	481.5	568.6	547.3	530.6	586.1	562.8
72.5°	1922.1	339.5	333.0	355.6	456.3	535.1	524.1	500.2	528.0	509.3
75°	959.8	294.3	302.7	316.9	420.8	497.0	485.4	461.5	465.4	461.5
77.5°	459.6	251.7	267.2	278.2	375.0	453.7	441.5	417.0	412.4	413.1
80°	291.1	210.4	225.3	233.0	335.0	403.4	391.1	366.6	418.2	387.9
82.5°	182.0	171.0	174.9	189.1	291.7	351.1	335.0	313.0	376.9	298.2
85°	100.7	119.4	124.6	136.8	224.6	293.7	277.5	249.8	224.0	220.1
87.5°	60.0	71.0	72.9	82.0	151.0	212.3	187.8	178.1	147.8	147.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)