

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: P192241

Luminaire Tested: **GLEON-AF-03-LED-E1-T3-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192241
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-03-LED-E1-T3-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14685 lumens
Efficiency: N/A
Efficacy: 118.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B2 - U0 - G3

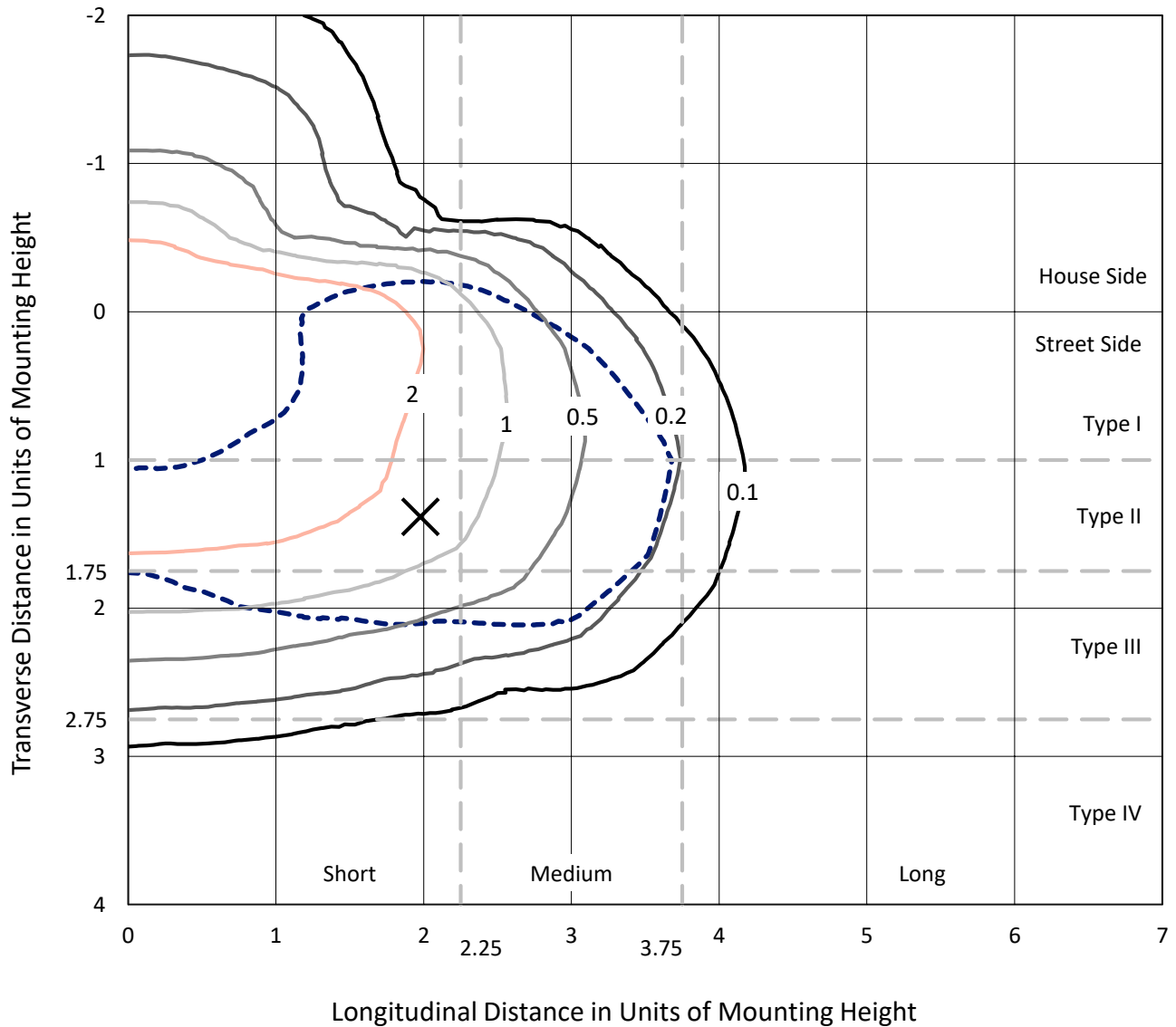
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

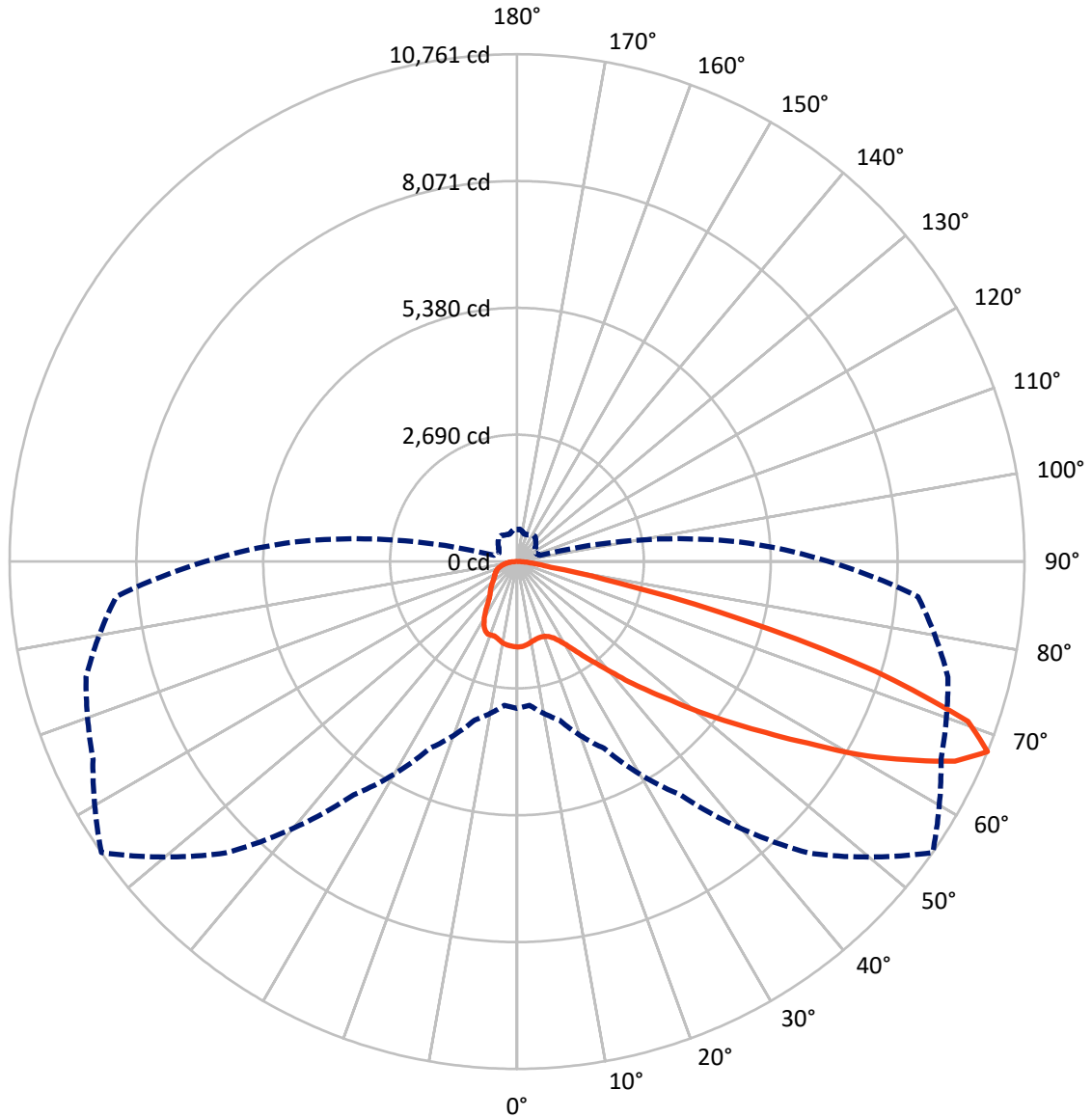
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.7 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	3172.3	0.0	3172.3
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	11512.7	0.0	11512.7
	% Fixture	78.4	0.0	78.4
Total	Lumens	14685.0	0.0	14685.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.0	1.2
10°-20°	478.7	3.3
20°-30°	801.9	5.5
30°-40°	1318.6	9.0
40°-50°	2219.6	15.1
50°-60°	3493.6	23.8
60°-70°	4169.2	28.4
70°-80°	1790.3	12.2
80°-90°	244.1	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°	14685.0	100.0
0°-180°	14685.0	100.0



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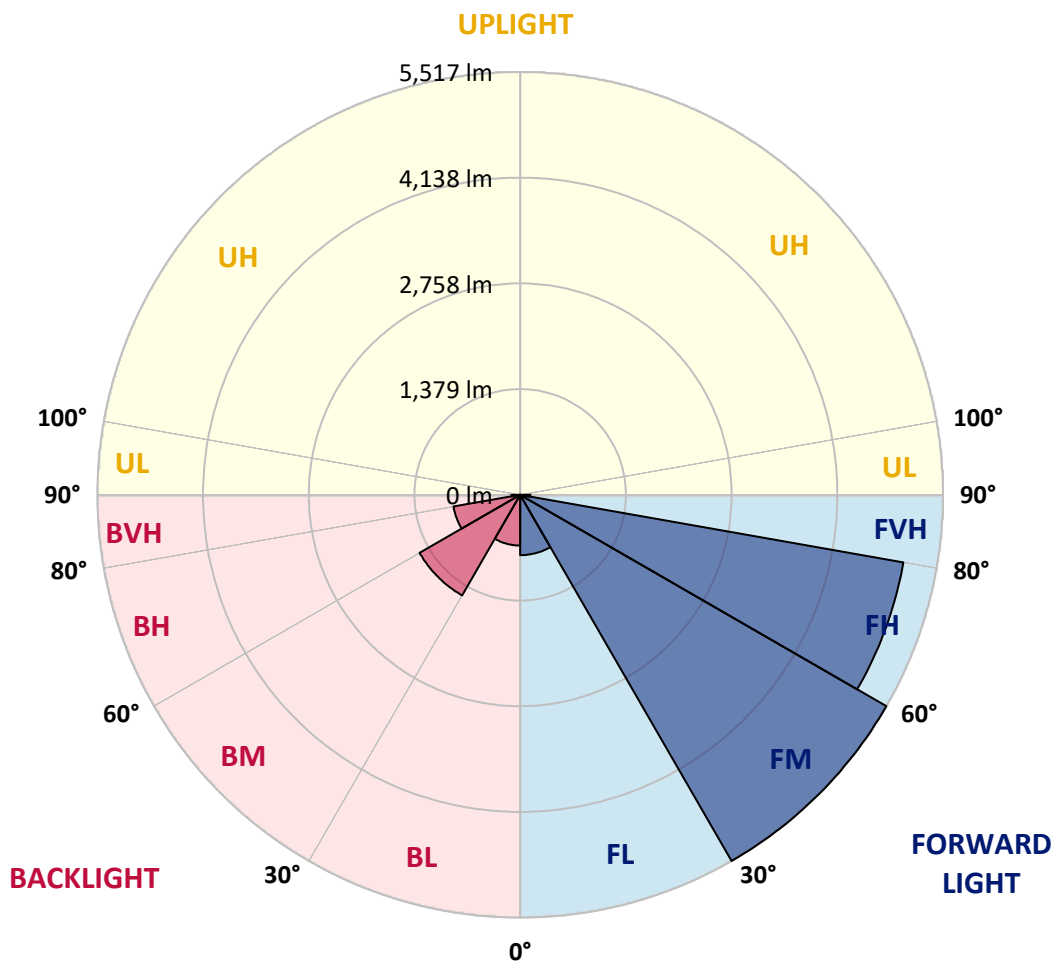
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	787.2	5.4			
FM (30°-60°)	5516.8	37.6			
FH (60°-80°)	5076.7	34.6			G3/7500
FVH (80°-90°)	132.1	0.9			G2/225
BL (0°-30°)	662.4	4.5	B2/1000		
BM (30°-60°)	1515.0	10.3	B2/2500		
BH (60°-80°)	882.8	6.0	B2/1000		G2/1000
BVH (80°-90°)	112.0	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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1810.8	1810.8	1810.8	1810.8	1810.8	1810.8	1810.8	1810.8	1810.8	1810.8	1810.8
2.5°	1795.2	1795.9	1797.3	1803.0	1808.0	1806.6	1807.3	1804.4	1803.7	1799.5	1803.7
5°	1772.5	1774.6	1775.4	1784.6	1790.3	1791.7	1789.5	1786.0	1781.7	1777.5	1779.6
7.5°	1720.7	1726.4	1727.1	1739.9	1749.1	1761.2	1761.9	1762.6	1760.5	1757.6	1761.9
10°	1688.1	1689.5	1688.8	1698.0	1705.1	1718.6	1726.4	1739.9	1745.6	1747.0	1749.8
12.5°	1686.0	1684.6	1682.4	1682.4	1680.3	1686.0	1700.2	1719.3	1732.8	1737.1	1740.6
15°	1708.7	1708.0	1700.9	1690.2	1676.8	1672.5	1684.6	1705.8	1723.6	1732.8	1736.3
17.5°	1759.8	1755.5	1744.1	1720.0	1691.0	1679.6	1681.0	1698.8	1719.3	1731.4	1734.9
20°	1853.4	1853.4	1829.3	1783.9	1732.1	1705.1	1692.4	1703.0	1722.9	1739.2	1744.1
22.5°	2015.1	2016.5	1976.1	1901.6	1814.4	1756.9	1725.0	1722.9	1746.3	1764.7	1770.4
25°	2244.2	2238.5	2181.8	2075.4	1942.7	1847.7	1792.4	1779.6	1799.5	1820.0	1827.1
27.5°	2510.9	2490.3	2422.9	2294.6	2122.9	1983.9	1898.8	1878.2	1897.4	1920.8	1927.9
30°	2774.7	2753.5	2673.3	2532.9	2342.1	2166.2	2044.2	2010.8	2037.8	2071.1	2075.4
32.5°	3038.6	3038.6	2949.2	2785.4	2577.6	2383.9	2237.8	2198.1	2242.8	2283.2	2292.4
35°	3354.2	3355.7	3269.1	3071.9	2848.5	2643.5	2482.5	2453.4	2520.8	2549.2	2571.2
37.5°	3742.2	3750.0	3638.7	3400.3	3155.6	2940.0	2748.5	2708.8	2776.2	2853.5	2924.4
40°	4161.4	4171.3	4048.6	3755.0	3510.3	3284.7	3077.6	3006.0	3118.0	3265.6	3357.1
42.5°	4561.5	4612.5	4494.1	4191.9	3928.8	3695.4	3485.5	3381.2	3521.6	3744.3	3823.8
45°	5139.5	5176.4	4970.0	4696.2	4448.7	4187.7	3909.6	3799.7	3996.1	4277.0	4293.3
47.5°	5524.7	5497.0	5392.0	5221.8	5065.0	4821.1	4402.6	4282.0	4543.0	4873.5	4782.0
50°	5729.7	5738.2	5724.0	5733.9	5739.6	5586.4	5006.9	4841.6	5153.0	5552.3	5341.7
52.5°	5921.2	5864.4	5911.2	6143.9	6424.8	6368.0	5664.4	5492.0	5807.0	6305.6	5933.2
55°	5916.9	5830.4	5982.9	6393.6	7002.8	7068.1	6402.8	6204.2	6498.5	7113.5	6560.2
57.5°	5707.7	5711.9	5946.7	6484.3	7405.7	7726.3	7259.6	6961.7	7231.9	7932.0	7132.6
60°	5419.7	5458.7	5797.0	6469.4	7728.4	8266.1	8310.8	7778.1	7950.4	8676.1	7606.4
62.5°	4955.1	4996.2	5463.0	6314.8	7679.5	8786.0	9261.2	8704.4	8701.6	9127.2	7745.5
65°	4222.4	4210.4	4700.5	5736.7	7268.8	9170.4	10205.3	9505.2	9267.6	9134.3	7466.0
67.5°	3113.8	3059.9	3480.5	4369.2	6041.7	8739.9	10760.7	9922.3	9460.5	8533.5	6612.0
70°	1615.8	1561.9	1902.3	2551.3	3973.5	6821.3	10145.7	9706.7	9034.2	7153.2	5180.0
72.5°	690.8	681.6	819.9	1119.3	1922.2	3934.4	7955.4	8401.6	7751.8	5329.6	3561.4
75°	464.6	461.7	513.5	610.0	864.6	1596.6	4978.5	5963.7	5671.5	3304.6	2003.0
77.5°	364.6	361.0	391.5	438.3	560.3	629.9	2209.4	3201.7	2963.4	1438.4	876.7
80°	285.1	282.3	301.4	327.0	402.9	397.2	727.0	1273.9	985.9	551.1	426.3
82.5°	224.8	224.8	240.4	241.2	285.8	270.9	379.5	561.0	492.2	321.3	261.0
85°	205.7	205.7	222.0	180.2	186.5	170.9	235.5	332.7	312.1	131.9	113.5
87.5°	103.6	100.7	186.5	159.6	101.4	90.8	114.9	161.0	173.1	73.1	56.7
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°	1810.8	1810.8	1810.8	1810.8	1810.8	1810.8	1810.8	1810.8	1810.8	1810.8
2.5°	1802.3	1801.6	1803.0	1803.7	1809.4	1817.2	1820.8	1825.7	1828.6	1827.1
5°	1781.0	1782.4	1788.1	1792.4	1802.3	1815.1	1822.2	1827.8	1832.8	1830.7
7.5°	1763.3	1766.8	1775.4	1778.9	1784.6	1788.1	1787.4	1789.5	1793.8	1788.8
10°	1753.4	1757.6	1764.0	1759.0	1745.6	1726.4	1708.7	1699.5	1702.3	1698.8
12.5°	1743.4	1749.1	1744.1	1720.7	1683.1	1658.3	1644.8	1646.3	1652.6	1654.1
15°	1737.8	1739.9	1718.6	1674.6	1636.3	1632.8	1639.9	1638.5	1639.2	1639.2
17.5°	1737.8	1732.1	1692.4	1648.4	1632.1	1625.7	1603.7	1576.0	1564.0	1559.7
20°	1747.0	1732.1	1683.9	1654.8	1619.3	1564.7	1506.5	1455.5	1432.8	1426.4
22.5°	1774.6	1749.1	1708.0	1657.6	1556.9	1465.4	1373.2	1312.2	1271.1	1264.0
25°	1830.7	1802.3	1755.5	1620.0	1457.6	1327.1	1222.1	1154.0	1112.9	1107.2
27.5°	1928.6	1910.1	1781.0	1537.0	1325.7	1185.9	1088.8	1036.3	1005.8	1003.6
30°	2076.1	2066.9	1768.3	1414.3	1163.2	1049.0	1002.2	971.7	949.0	948.3
32.5°	2311.6	2237.1	1726.4	1264.7	1015.0	951.9	932.7	914.3	896.5	896.5
35°	2614.4	2374.7	1647.0	1104.4	924.9	898.0	873.8	844.8	821.4	819.9
37.5°	2970.5	2459.8	1504.4	975.3	882.4	861.8	826.3	783.1	741.9	734.8
40°	3330.1	2485.4	1303.7	895.8	855.4	825.6	782.3	731.3	691.6	689.4
42.5°	3659.9	2436.4	1090.9	841.2	828.5	788.7	743.3	697.9	666.7	666.0
45°	3936.6	2309.5	912.1	789.4	800.1	755.4	715.0	678.1	654.0	649.0
47.5°	4196.9	2130.0	786.6	734.8	771.7	737.0	702.9	668.2	644.7	641.2
50°	4499.0	1936.4	698.7	681.6	746.9	730.6	712.8	676.7	637.7	633.4
52.5°	4865.0	1769.0	629.9	634.8	727.7	739.1	738.4	700.8	632.7	627.0
55°	5273.6	1583.1	578.1	596.5	719.9	754.7	744.8	723.5	636.9	628.4
57.5°	5675.7	1366.1	541.9	567.4	708.6	753.3	714.3	683.8	646.9	634.8
60°	5977.2	1074.6	514.2	541.9	683.8	729.9	680.9	640.5	644.7	635.5
62.5°	5997.1	830.6	480.9	519.9	646.2	706.5	658.9	621.3	654.0	645.5
65°	5644.5	627.7	449.0	493.7	605.7	691.6	637.7	610.7	673.1	663.9
67.5°	4752.3	505.0	422.0	466.7	565.3	660.4	618.5	600.8	690.1	673.8
70°	3430.8	430.5	395.8	434.1	529.1	624.9	601.5	583.0	644.0	618.5
72.5°	2112.3	373.1	366.0	390.8	501.5	588.0	575.9	549.7	580.2	559.6
75°	1054.7	323.4	332.7	348.3	462.5	546.2	533.4	507.1	511.4	507.1
77.5°	505.0	276.6	293.6	305.7	412.1	498.6	485.2	458.2	453.2	453.9
80°	319.9	231.2	247.5	256.1	368.1	443.3	429.8	402.9	459.6	426.3
82.5°	200.0	188.0	192.2	207.8	320.6	385.9	368.1	344.0	414.2	327.7
85°	110.6	131.2	136.9	150.4	246.8	322.7	305.0	274.5	246.1	241.9
87.5°	66.0	78.0	80.1	90.1	166.0	233.4	206.4	195.8	162.4	161.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)