

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: P270236

Luminaire Tested: **GWC-AF-02-LED-E1-T4FT-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270236
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GWC-AF-02-LED-E1-T4FT-7027-1200
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11910.3 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-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

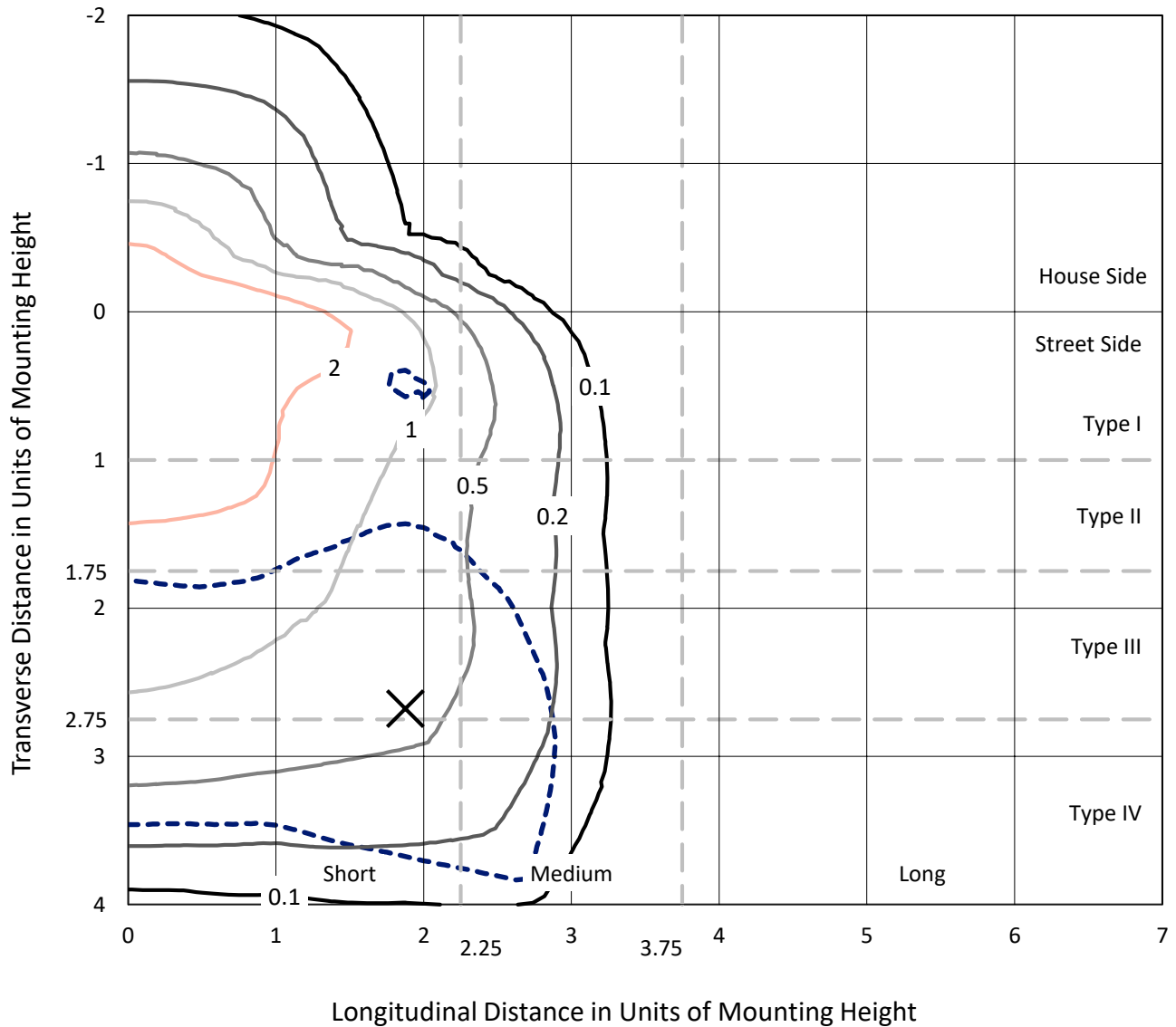


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

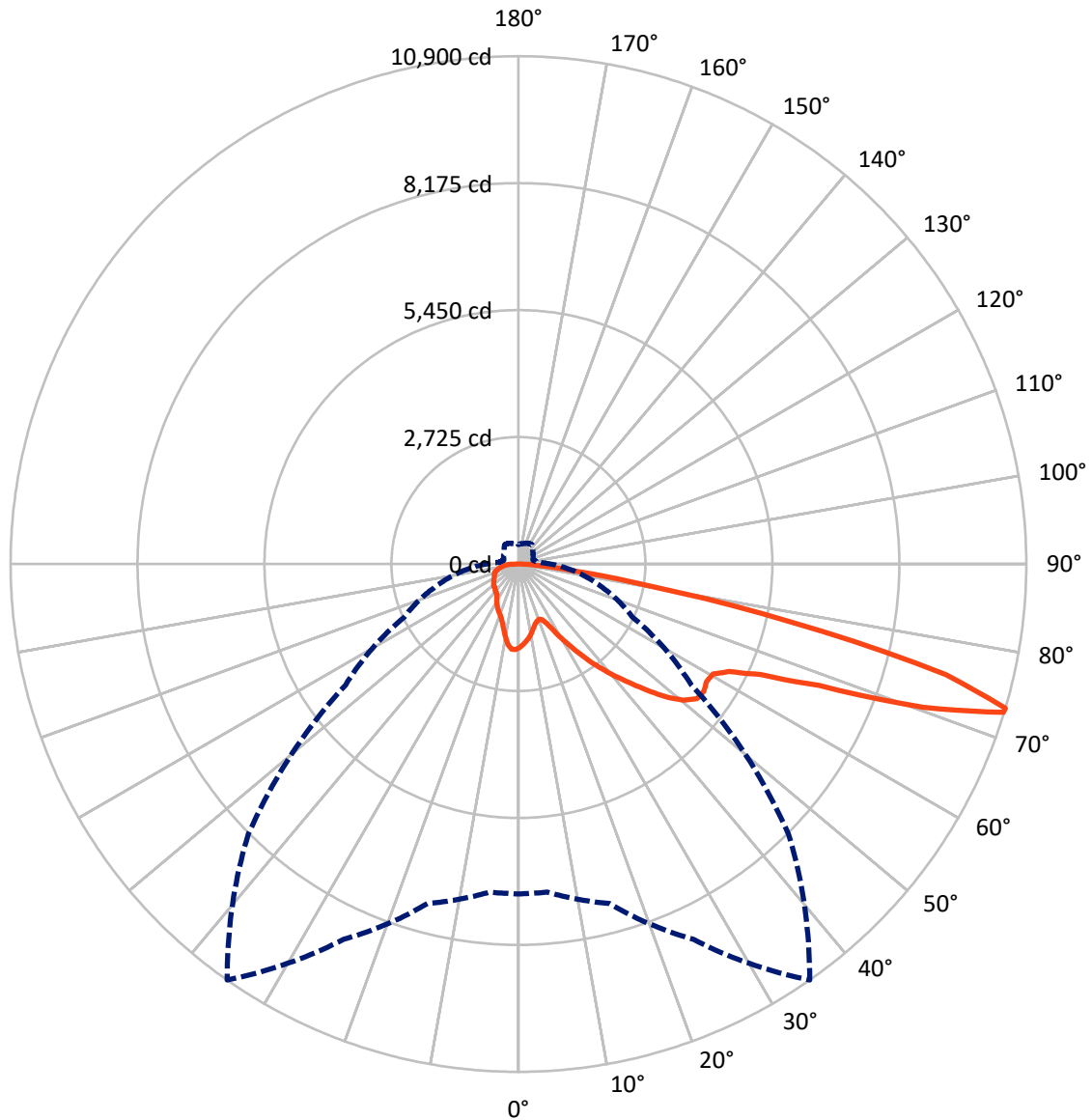


Based on 20 foot mounting height. Maximum calculated value = 4.5 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2271.6	0.0	2271.6
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	9638.7	0.0	9638.7
	% Fixture	80.9	0.0	80.9
Total	Lumens	11910.3	0.0	11910.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.7	1.4
10°-20°	406.2	3.4
20°-30°	656.6	5.5
30°-40°	1101.1	9.2
40°-50°	1697.3	14.3
50°-60°	2277.0	19.1
60°-70°	3033.5	25.5
70°-80°	2313.6	19.4
80°-90°	262.2	2.2
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°	11910.3	100.0
0°-180°	11910.3	100.0

Coefficient of Utilization



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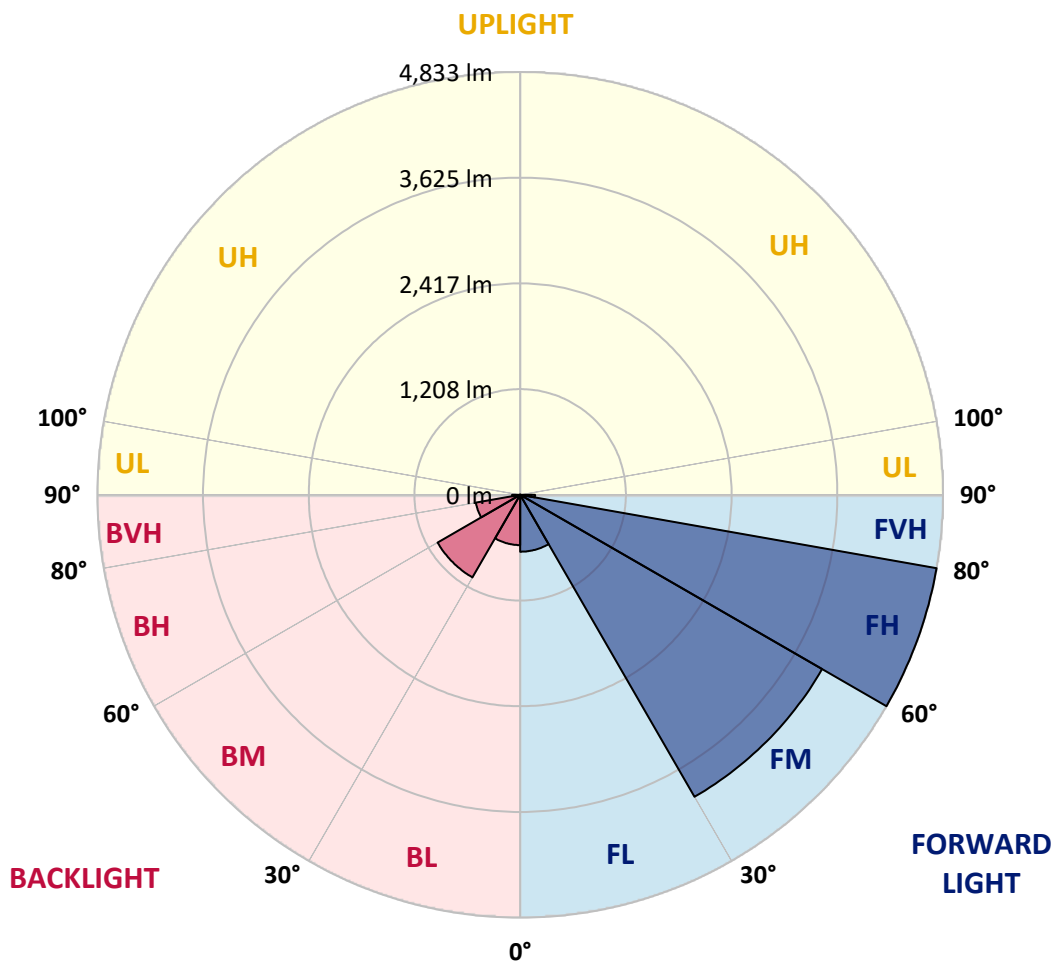
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	650.7	5.5			
FM	(30°-60°)	3985.2	33.5			
FH	(60°-80°)	4833.2	40.6			G2/5000
FVH	(80°-90°)	169.5	1.4			G2/225
BL	(0°-30°)	574.8	4.8	B2/1000		
BM	(30°-60°)	1090.1	9.2	B2/2500		
BH	(60°-80°)	513.9	4.3	B2/1000		G2/1000
BVH	(80°-90°)	92.7	0.8			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1797.6	1797.6	1797.6	1797.6	1797.6	1797.6	1797.6	1797.6	1797.6	1797.6	1797.6
2.5°	1726.7	1730.1	1726.2	1731.4	1739.8	1749.0	1755.3	1764.5	1774.7	1789.1	1792.5
5°	1645.4	1650.6	1650.6	1659.8	1676.3	1691.2	1705.0	1719.8	1741.5	1766.2	1775.9
7.5°	1556.3	1559.1	1564.3	1578.1	1602.0	1623.1	1642.6	1666.6	1696.4	1729.0	1746.1
10°	1448.7	1452.7	1460.7	1480.1	1512.7	1542.0	1570.0	1603.1	1640.9	1681.5	1703.2
12.5°	1372.7	1371.5	1374.9	1389.3	1417.9	1453.3	1493.9	1536.2	1582.5	1630.1	1656.4
15°	1347.0	1340.6	1327.4	1324.0	1339.6	1374.9	1421.8	1473.8	1529.4	1586.5	1619.1
17.5°	1363.0	1352.0	1316.0	1289.7	1287.5	1314.3	1364.0	1422.5	1486.4	1556.3	1596.8
20°	1463.6	1437.8	1349.3	1288.0	1266.9	1280.1	1323.6	1385.2	1460.7	1553.3	1605.5
22.5°	1704.4	1666.6	1478.5	1364.6	1293.2	1277.2	1309.8	1375.6	1463.6	1588.8	1655.1
25°	2055.1	2001.2	1700.4	1555.7	1408.2	1322.9	1330.4	1397.9	1504.2	1671.2	1751.2
27.5°	2331.8	2297.0	1990.4	1825.0	1617.5	1446.5	1397.3	1453.8	1587.1	1806.2	1888.0
30°	2496.6	2475.4	2300.4	2130.5	1884.6	1643.2	1525.4	1559.1	1717.0	1993.2	2060.7
32.5°	2687.5	2675.1	2589.3	2433.1	2172.8	1901.7	1728.3	1716.4	1890.8	2218.1	2248.8
35°	2885.4	2881.5	2831.2	2719.0	2482.2	2242.6	1997.8	1916.7	2080.1	2451.4	2431.9
37.5°	3069.7	3062.9	3033.5	2968.4	2805.9	2608.7	2272.4	2121.9	2284.4	2674.4	2588.0
40°	3408.8	3355.0	3255.0	3205.8	3133.1	2916.9	2490.2	2313.6	2496.0	2887.2	2723.0
42.5°	3822.3	3734.9	3548.3	3480.8	3470.6	3160.0	2639.0	2499.4	2709.3	3098.3	2855.7
45°	4147.7	4065.4	3904.8	3819.5	3857.2	3380.2	2788.2	2697.9	2929.0	3319.5	2992.4
47.5°	4494.8	4365.7	4153.0	4178.6	4261.0	3588.4	2940.4	2911.1	3169.7	3567.2	3162.4
50°	4507.5	4408.6	4315.4	4469.2	4597.3	3780.0	3130.9	3134.8	3464.3	3878.9	3388.1
52.5°	4246.2	4225.0	4373.0	4615.0	4799.7	3931.5	3347.7	3365.9	3841.2	4236.9	3636.5
55°	4154.7	4130.5	4301.7	4564.2	4827.2	4056.8	3582.7	3615.9	4297.0	4614.5	3878.4
57.5°	4377.7	4324.5	4335.8	4540.2	4760.3	4194.0	3838.8	3905.8	4792.4	4944.5	4034.0
60°	5001.1	4887.3	4671.0	4665.9	4796.3	4400.0	4135.2	4217.0	5307.0	5102.4	3973.4
62.5°	5875.6	5761.8	5356.9	5093.2	5073.7	4739.7	4498.9	4520.7	5604.5	4888.4	3603.3
65°	6822.2	6720.4	6268.0	5895.7	5716.1	5302.5	4921.6	4656.3	5507.2	4299.8	2955.9
67.5°	7971.2	7862.0	7473.1	7129.3	6956.7	6210.8	5218.4	4526.4	4890.2	3331.1	2124.9
70°	8774.9	8663.3	8510.1	8788.6	9211.2	7521.1	5256.8	3998.4	3652.5	2214.1	1278.8
72.5°	7726.4	7674.4	7954.1	9127.0	10887.5	8316.1	4751.8	2911.1	2121.3	1175.3	740.2
73°	7079.1	7067.5	7544.5	8889.7	10899.7	8193.7	4530.4	2705.9	1819.3	1039.8	676.7
75°	3196.6	3288.7	4334.2	6790.2	9469.8	6751.8	3188.7	1552.4	1027.8	718.4	510.7
77.5°	768.1	800.2	1356.1	3224.6	5980.2	4023.7	1444.7	767.5	657.2	507.4	372.8
80°	327.2	338.0	522.2	1191.3	2815.6	1620.4	665.7	514.2	454.7	354.0	261.3
82.5°	181.8	193.3	296.4	540.5	1136.4	552.5	406.0	358.1	299.1	213.3	169.9
85°	102.9	109.2	173.4	302.0	481.6	221.9	243.1	238.0	168.7	109.9	83.5
87.5°	48.6	52.6	83.5	140.1	188.7	87.0	123.5	136.2	105.8	67.0	43.5
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°	1797.6	1797.6	1797.6	1797.6	1797.6	1797.6	1797.6	1797.6	1797.6	1797.6
2.5°	1796.5	1806.9	1818.8	1825.0	1830.7	1837.7	1844.5	1844.5	1845.7	1846.2
5°	1783.9	1805.1	1824.0	1832.0	1833.7	1833.7	1832.0	1822.8	1814.8	1818.2
7.5°	1757.7	1788.4	1804.4	1801.6	1779.9	1754.7	1733.5	1707.9	1694.7	1692.3
10°	1719.8	1755.3	1758.2	1729.5	1675.8	1622.0	1577.5	1533.9	1513.4	1508.3
12.5°	1678.2	1710.7	1692.3	1633.5	1547.2	1468.8	1412.1	1368.1	1348.6	1343.5
15°	1644.3	1666.6	1620.4	1527.7	1419.1	1336.0	1289.2	1256.5	1242.8	1238.9
17.5°	1626.7	1631.2	1546.5	1421.3	1305.7	1236.5	1207.4	1192.0	1186.8	1184.0
20°	1635.3	1603.1	1476.2	1322.3	1213.2	1164.6	1157.6	1153.7	1152.4	1150.8
22.5°	1678.2	1594.6	1411.5	1228.5	1131.9	1110.8	1116.5	1115.9	1114.7	1113.5
25°	1754.7	1602.0	1348.6	1139.3	1063.9	1059.2	1069.5	1069.5	1065.0	1065.0
27.5°	1856.0	1617.5	1278.3	1054.7	1002.1	1002.6	1010.7	1008.3	1003.1	999.8
30°	1979.5	1627.2	1196.0	978.7	944.3	942.1	944.3	934.5	919.1	918.0
32.5°	2105.8	1615.2	1100.5	911.2	883.0	878.0	876.2	862.6	844.8	839.6
35°	2220.3	1571.1	1003.1	857.3	824.7	813.3	821.3	816.7	800.7	796.7
37.5°	2303.9	1489.4	915.7	809.9	783.1	780.2	785.3	786.9	768.1	764.1
40°	2359.8	1378.4	840.8	769.8	775.0	764.1	747.0	735.0	729.2	727.4
42.5°	2405.0	1262.8	777.8	751.0	776.8	745.2	708.0	688.6	698.9	703.6
45°	2457.0	1150.2	725.2	727.4	768.1	723.6	681.2	662.3	666.4	667.5
47.5°	2528.5	1012.8	668.6	689.8	739.6	708.7	664.6	637.7	618.8	610.3
50°	2627.5	850.4	609.7	647.5	711.5	697.8	638.9	610.3	575.4	567.4
52.5°	2696.2	698.9	561.1	611.9	686.3	676.1	618.3	581.2	544.6	537.6
55°	2659.1	580.6	518.7	572.5	653.2	649.1	601.1	551.4	522.8	517.1
57.5°	2473.2	505.6	486.2	535.3	612.6	626.3	578.1	526.1	505.6	501.7
60°	2118.6	458.8	465.5	510.1	579.3	603.4	555.3	512.5	498.6	495.9
62.5°	1643.8	427.2	450.1	491.9	553.6	587.4	542.8	510.7	505.6	502.2
65°	1177.7	402.1	433.5	473.5	530.2	572.5	538.3	508.5	509.6	506.7
67.5°	800.2	379.8	413.5	452.9	507.4	559.4	531.8	500.4	514.8	511.3
70°	560.0	358.1	390.0	426.6	478.7	541.0	520.5	488.5	487.3	473.5
72.5°	436.9	329.5	358.1	390.0	442.1	515.3	497.7	461.5	442.7	428.4
73°	417.0	322.6	350.0	382.0	434.2	509.0	491.4	454.2	433.0	419.8
75°	344.9	292.8	318.0	346.6	399.7	479.2	460.4	420.3	393.5	385.6
77.5°	271.1	250.4	274.5	300.3	352.3	435.8	414.7	376.3	361.5	354.7
80°	200.7	207.6	228.8	251.6	305.5	389.4	370.6	332.4	398.7	382.0
82.5°	141.3	157.4	176.7	197.3	256.2	344.3	321.5	282.0	291.7	242.5
85°	83.5	102.9	121.2	139.0	184.7	285.4	265.4	224.8	184.2	175.6
87.5°	48.6	57.2	62.3	80.7	127.0	215.1	187.0	166.5	95.5	64.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)