

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: P200368

Luminaire Tested: **GWC-AF-02-LED-E1-T4FT-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200368
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-7050
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 5000K, 1050mA 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: 12497 lumens
Efficiency: N/A
Efficacy: 110.6 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 - G3

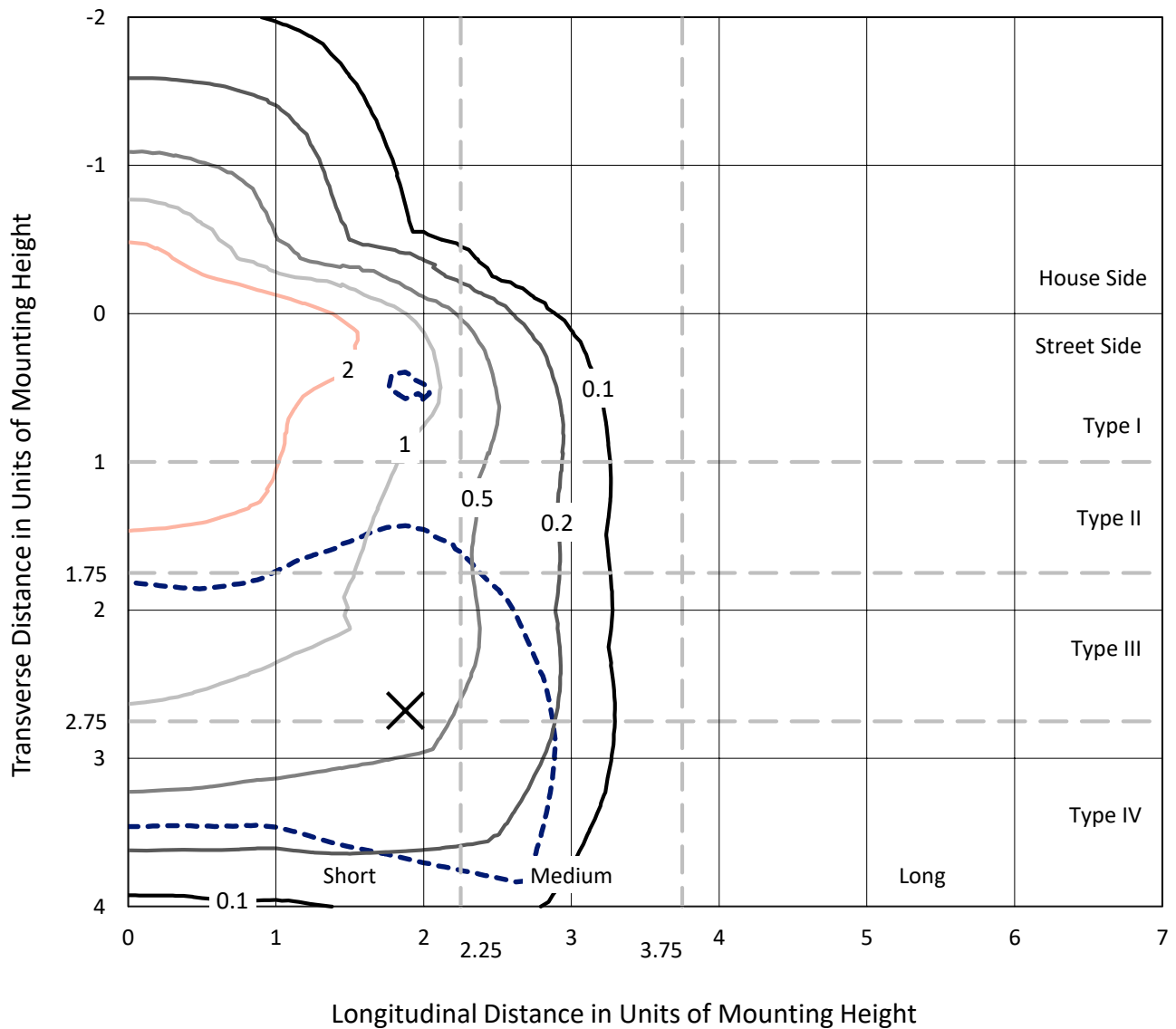
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

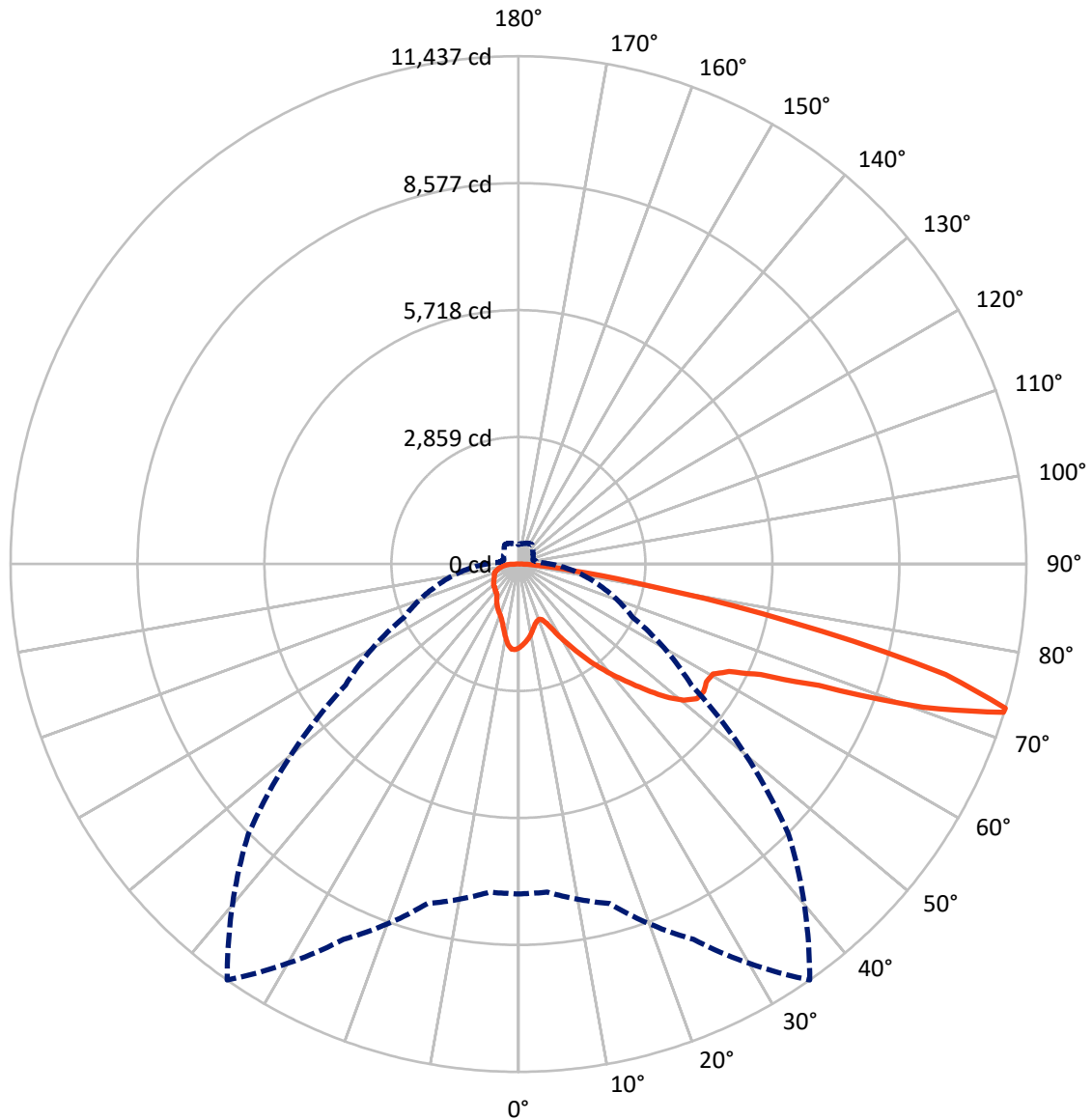
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.7 fc
 Type 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	2383.5	0.0	2383.5
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	10113.5	0.0	10113.5
	% Fixture	80.9	0.0	80.9
Total	Lumens	12497.0	0.0	12497.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.8	1.4
10°-20°	426.2	3.4
20°-30°	689.0	5.5
30°-40°	1155.3	9.2
40°-50°	1780.9	14.3
50°-60°	2389.2	19.1
60°-70°	3182.9	25.5
70°-80°	2427.6	19.4
80°-90°	275.2	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°	12497.0	100.0
0°-180°	12497.0	100.0



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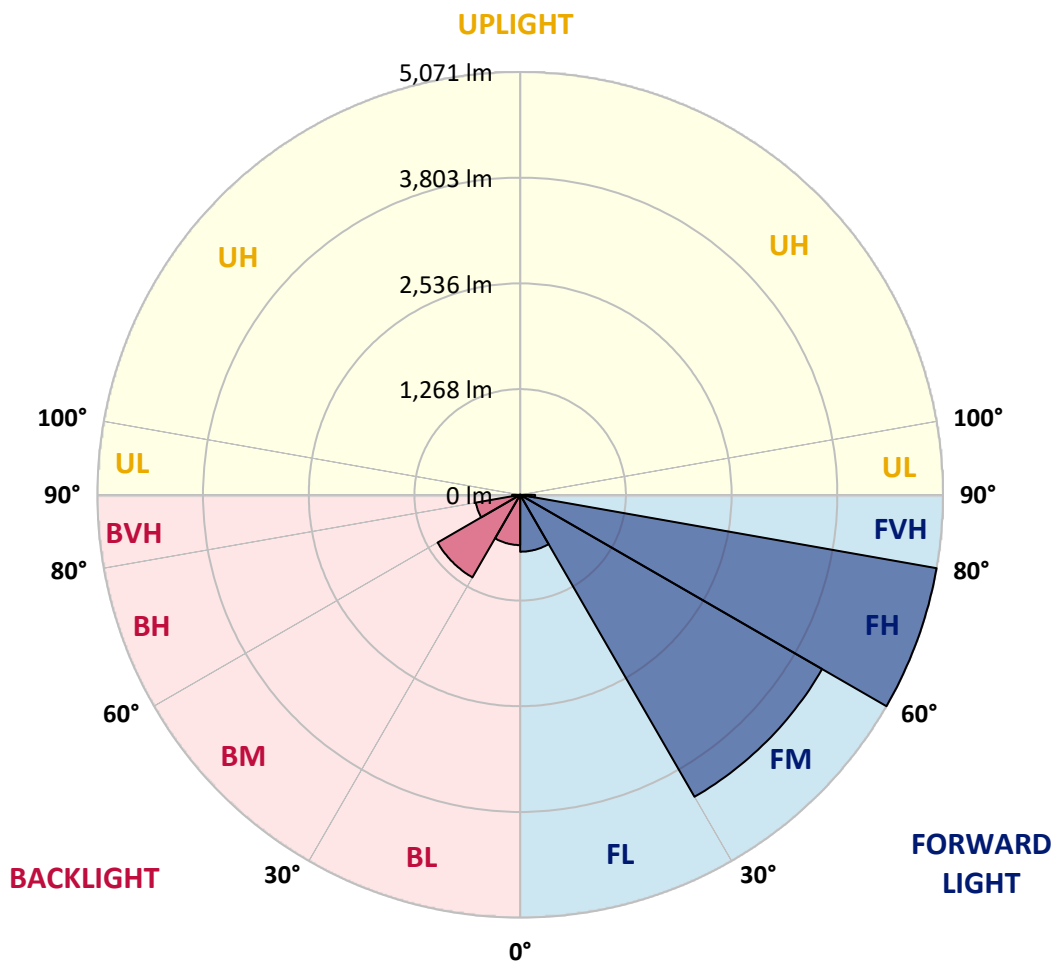
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	682.8	5.5			
FM	(30°-60°)	4181.6	33.5			
FH	(60°-80°)	5071.3	40.6			G3/7500
FVH	(80°-90°)	177.9	1.4			G2/225
BL	(0°-30°)	603.1	4.8	B2/1000		
BM	(30°-60°)	1143.8	9.2	B2/2500		
BH	(60°-80°)	539.3	4.3	B2/1000		G2/1000
BVH	(80°-90°)	97.3	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1886.2	1886.2	1886.2	1886.2	1886.2	1886.2	1886.2	1886.2	1886.2	1886.2	1886.2
2.5°	1811.8	1815.4	1811.2	1816.6	1825.6	1835.2	1841.8	1851.4	1862.2	1877.2	1880.8
5°	1726.6	1732.0	1732.0	1741.6	1759.0	1774.6	1789.0	1804.6	1827.4	1853.2	1863.4
7.5°	1632.9	1635.9	1641.3	1655.7	1680.9	1703.1	1723.6	1748.8	1780.0	1814.2	1832.2
10°	1520.1	1524.3	1532.7	1553.1	1587.3	1617.9	1647.3	1682.1	1721.8	1764.4	1787.2
12.5°	1440.3	1439.1	1442.7	1457.7	1487.7	1524.9	1567.5	1611.9	1660.5	1710.3	1738.0
15°	1413.3	1406.7	1392.9	1389.3	1405.5	1442.7	1491.9	1546.5	1604.7	1664.7	1698.9
17.5°	1430.1	1418.7	1380.9	1353.3	1350.9	1379.1	1431.3	1492.5	1559.7	1632.9	1675.5
20°	1535.7	1508.7	1415.7	1351.5	1329.3	1343.1	1388.7	1453.5	1532.7	1629.9	1684.5
22.5°	1788.4	1748.8	1551.3	1431.9	1356.9	1340.1	1374.3	1443.3	1535.7	1667.1	1736.8
25°	2156.2	2099.8	1784.2	1632.3	1477.5	1388.1	1395.9	1466.7	1578.3	1753.6	1837.6
27.5°	2446.7	2410.1	2088.4	1915.0	1697.1	1517.7	1466.1	1525.5	1665.3	1895.2	1981.0
30°	2619.5	2597.3	2413.7	2235.5	1977.4	1724.2	1600.5	1635.9	1801.6	2091.4	2162.2
32.5°	2820.0	2806.8	2716.8	2552.9	2279.9	1995.4	1813.6	1801.0	1984.0	2327.3	2359.7
35°	3027.6	3023.4	2970.6	2853.0	2604.5	2353.1	2096.2	2011.0	2182.6	2572.1	2551.7
37.5°	3220.9	3213.7	3183.1	3114.6	2944.2	2737.2	2384.3	2226.5	2396.9	2806.2	2715.6
40°	3576.7	3520.3	3415.3	3363.7	3287.5	3060.6	2612.9	2427.5	2618.9	3029.4	2857.2
42.5°	4010.6	3918.8	3723.2	3652.3	3641.5	3315.7	2769.0	2622.5	2842.8	3250.9	2996.4
45°	4352.1	4265.7	4097.0	4007.6	4047.2	3546.7	2925.6	2830.8	3073.2	3483.1	3139.8
47.5°	4716.4	4580.7	4357.5	4384.5	4470.9	3765.2	3085.2	3054.6	3325.9	3743.0	3318.1
50°	4729.6	4625.7	4527.9	4689.4	4823.8	3966.2	3285.1	3289.3	3634.9	4070.0	3555.1
52.5°	4455.3	4433.1	4588.5	4842.4	5036.2	4125.2	3512.5	3531.7	4030.4	4445.7	3815.6
55°	4359.3	4334.1	4513.5	4789.0	5065.0	4256.7	3759.2	3794.0	4508.7	4841.8	4069.4
57.5°	4593.3	4537.5	4549.5	4763.8	4994.8	4400.7	4028.0	4098.2	5028.4	5188.1	4232.7
60°	5247.5	5128.0	4901.2	4895.8	5032.6	4616.7	4338.9	4424.7	5568.5	5353.7	4169.1
62.5°	6165.1	6045.6	5620.7	5344.1	5323.7	4973.2	4720.6	4743.4	5880.6	5129.2	3780.8
65°	7158.3	7051.4	6576.7	6186.1	5997.6	5563.7	5164.1	4885.6	5778.6	4511.7	3101.4
67.5°	8363.9	8249.3	7841.2	7480.5	7299.3	6516.7	5475.5	4749.4	5131.0	3495.1	2229.5
70°	9207.1	9090.1	8929.2	9221.5	9665.0	7891.6	5515.7	4195.5	3832.4	2323.1	1341.9
72.5°	8107.1	8052.4	8345.9	9576.8	11423.9	8725.8	4985.8	3054.6	2225.9	1233.3	776.6
73°	7427.7	7415.7	7916.2	9327.7	11436.5	8597.4	4753.6	2839.2	1909.0	1091.0	709.9
75°	3354.1	3450.7	4547.7	7124.7	9936.2	7084.4	3345.7	1628.7	1078.4	753.8	535.9
77.5°	806.0	839.6	1422.9	3383.5	6274.9	4221.9	1515.9	805.4	689.5	532.3	391.3
80°	343.3	354.7	547.9	1250.1	2954.4	1700.1	698.5	539.5	477.1	371.5	274.3
82.5°	190.8	202.8	310.9	567.1	1192.4	579.7	426.1	375.7	313.9	223.8	178.2
85°	108.0	114.6	181.8	316.9	505.3	232.8	255.1	249.7	177.0	115.2	87.6
87.5°	51.0	55.2	87.6	147.0	198.0	91.2	129.6	142.8	111.0	70.2	45.6
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°	1886.2	1886.2	1886.2	1886.2	1886.2	1886.2	1886.2	1886.2	1886.2	1886.2
2.5°	1885.0	1895.8	1908.4	1915.0	1921.0	1928.2	1935.4	1935.4	1936.6	1937.2
5°	1871.8	1894.0	1913.8	1922.2	1924.0	1924.0	1922.2	1912.6	1904.2	1907.8
7.5°	1844.2	1876.6	1893.4	1890.4	1867.6	1841.2	1819.0	1792.0	1778.2	1775.8
10°	1804.6	1841.8	1844.8	1814.8	1758.4	1701.9	1655.1	1609.5	1587.9	1582.5
12.5°	1760.8	1795.0	1775.8	1714.0	1623.3	1541.1	1481.7	1435.5	1415.1	1409.7
15°	1725.4	1748.8	1700.1	1602.9	1488.9	1401.9	1352.7	1318.5	1304.1	1299.9
17.5°	1706.7	1711.5	1622.7	1491.3	1370.1	1297.5	1266.9	1250.7	1245.3	1242.3
20°	1715.8	1682.1	1548.9	1387.5	1272.9	1221.8	1214.6	1210.4	1209.2	1207.4
22.5°	1760.8	1673.1	1481.1	1289.1	1187.6	1165.4	1171.4	1170.8	1169.6	1168.4
25°	1841.2	1680.9	1415.1	1195.4	1116.2	1111.4	1122.2	1122.2	1117.4	1117.4
27.5°	1947.4	1697.1	1341.3	1106.6	1051.4	1052.0	1060.4	1058.0	1052.6	1049.0
30°	2077.0	1707.3	1254.9	1026.8	990.8	988.4	990.8	980.6	964.4	963.2
32.5°	2209.7	1694.7	1154.6	956.0	926.6	921.2	919.4	905.0	886.4	881.0
35°	2329.7	1648.5	1052.6	899.6	865.4	853.4	861.8	857.0	840.2	836.0
37.5°	2417.3	1562.7	960.8	849.8	821.6	818.6	824.0	825.8	806.0	801.8
40°	2476.1	1446.3	882.2	807.8	813.2	801.8	783.8	771.2	765.2	763.4
42.5°	2523.5	1325.1	816.2	788.0	815.0	782.0	743.0	722.5	733.3	738.2
45°	2578.1	1206.8	761.0	763.4	806.0	759.2	714.7	694.9	699.1	700.3
47.5°	2653.1	1062.8	701.5	723.7	776.0	743.6	697.3	669.1	649.3	640.3
50°	2757.0	892.4	639.7	679.3	746.6	732.1	670.3	640.3	603.7	595.3
52.5°	2829.0	733.3	588.7	642.1	720.1	709.3	648.7	609.7	571.3	564.1
55°	2790.0	609.1	544.3	600.7	685.3	681.1	630.7	578.5	548.5	542.5
57.5°	2594.9	530.5	510.1	561.7	642.7	657.1	606.7	552.1	530.5	526.3
60°	2222.9	481.3	488.5	535.3	607.9	633.1	582.7	537.7	523.3	520.3
62.5°	1724.8	448.3	472.3	516.1	580.9	616.3	569.5	535.9	530.5	526.9
65°	1235.7	421.9	454.9	496.9	556.3	600.7	564.7	533.5	534.7	531.7
67.5°	839.6	398.5	433.9	475.3	532.3	586.9	558.1	525.1	540.1	536.5
70°	587.5	375.7	409.3	447.7	502.3	567.7	546.1	512.5	511.3	496.9
72.5°	458.5	345.7	375.7	409.3	463.9	540.7	522.1	484.3	464.5	449.5
73°	437.5	338.5	367.3	400.9	455.5	534.1	515.5	476.5	454.3	440.5
75°	361.9	307.3	333.7	363.7	419.5	502.9	483.1	441.1	412.9	404.5
77.5°	284.5	262.9	288.1	315.1	369.7	457.3	435.1	394.9	379.3	372.1
80°	210.6	217.8	240.0	264.1	320.5	408.7	388.9	348.7	418.3	400.9
82.5°	148.2	165.0	185.4	207.0	268.9	361.3	337.3	295.9	306.1	254.5
85°	87.6	108.0	127.2	145.8	193.8	299.5	278.5	235.8	193.2	184.2
87.5°	51.0	60.0	65.4	84.6	133.2	225.6	196.2	174.6	100.2	67.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)