

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: P193270

Luminaire Tested: **GLEON-AF-02-LED-E1-T4FT-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193270
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: GLEON-AF-02-LED-E1-T4FT-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 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: 11849.2 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G2

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

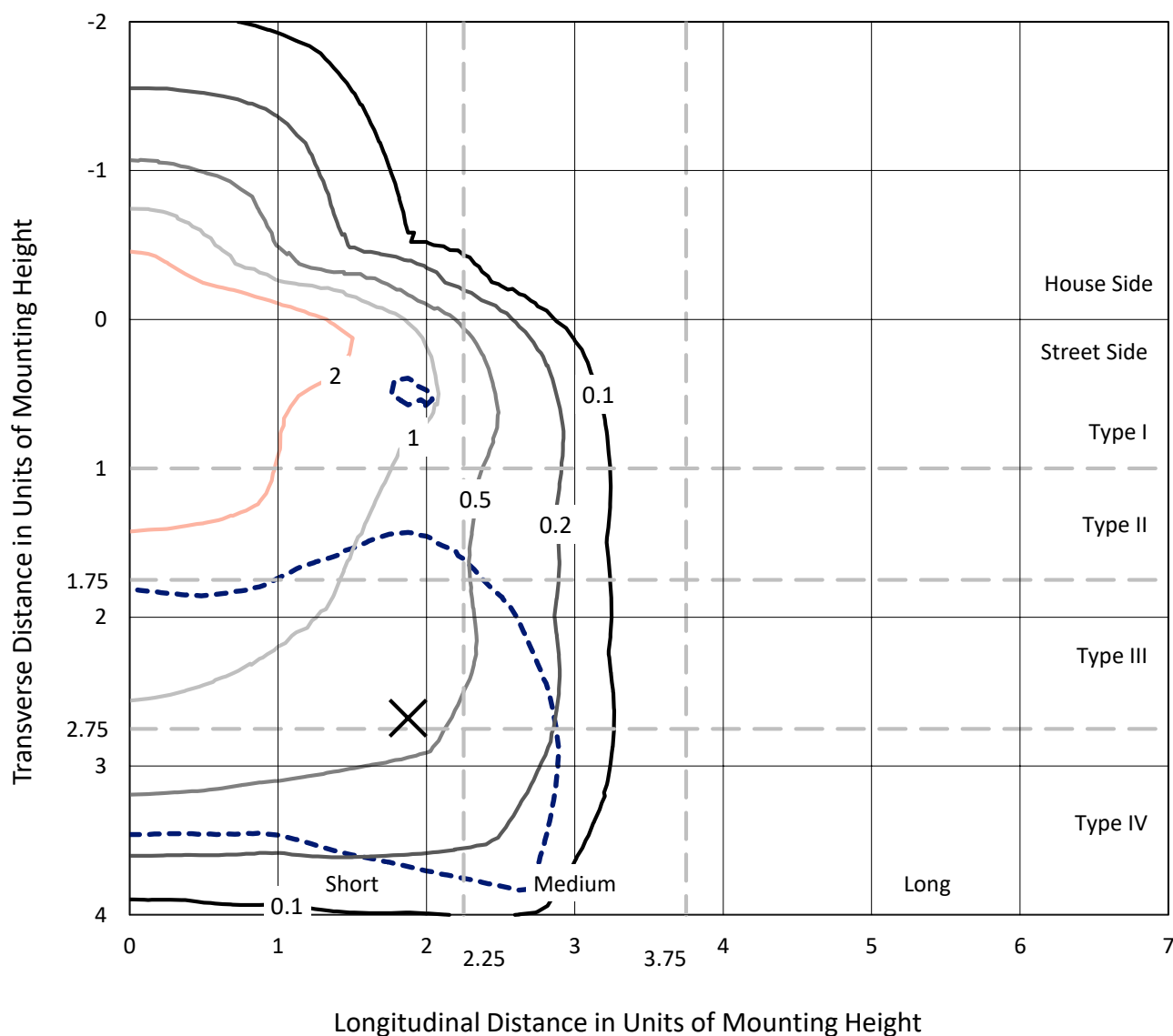


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

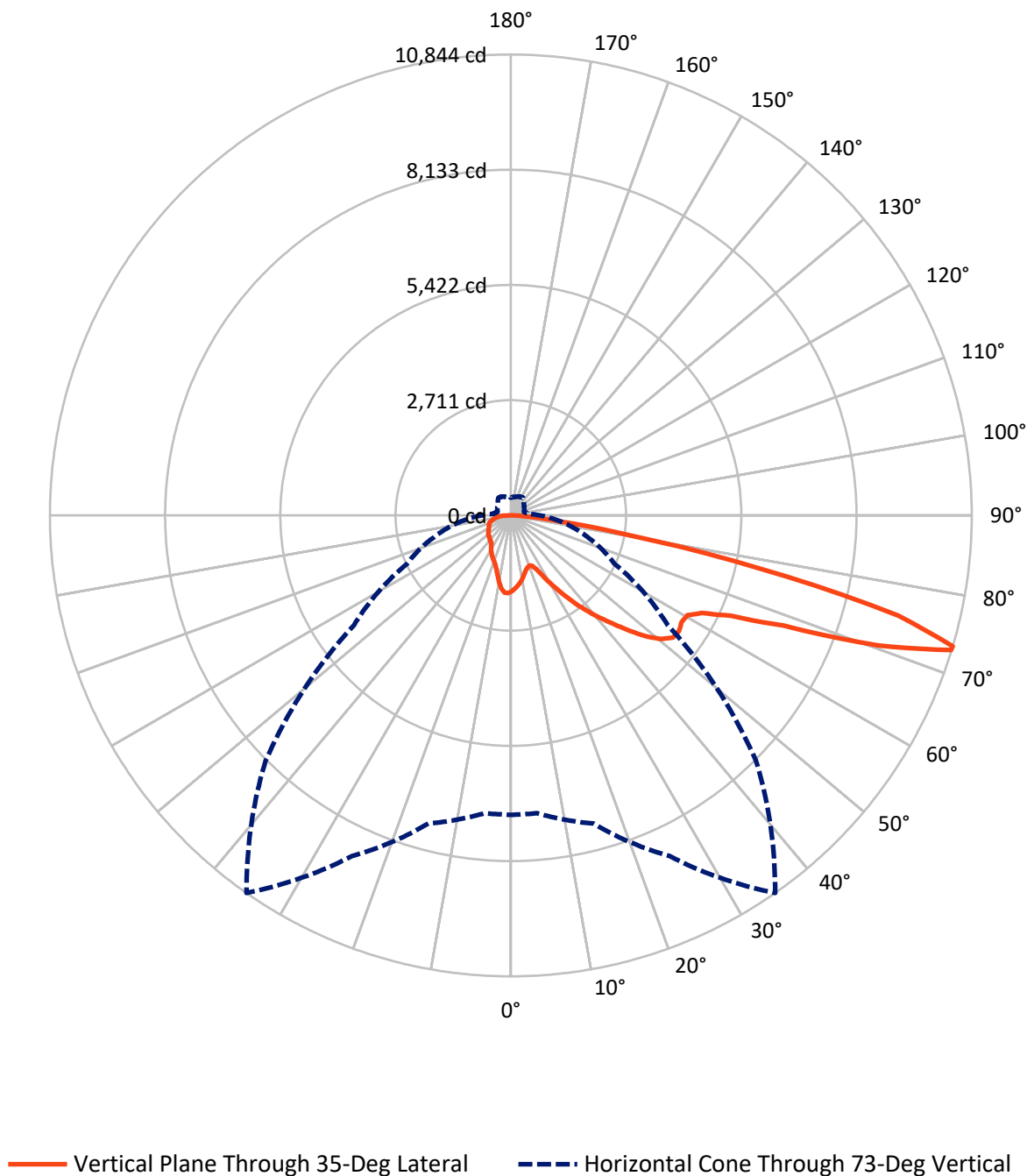


Based on 20 foot mounting height. Maximum calculated value = 4.5 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2260.0	0.0	2260.0
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	9589.2	0.0	9589.2
	% Fixture	80.9	0.0	80.9
Total	Lumens	11849.2	0.0	11849.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.9	1.4
10°-20°	404.1	3.4
20°-30°	653.3	5.5
30°-40°	1095.4	9.2
40°-50°	1688.5	14.3
50°-60°	2265.4	19.1
60°-70°	3017.9	25.5
70°-80°	2301.8	19.4
80°-90°	260.9	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°	11849.2	100.0
0°-180°	11849.2	100.0

Coefficient of Utilization



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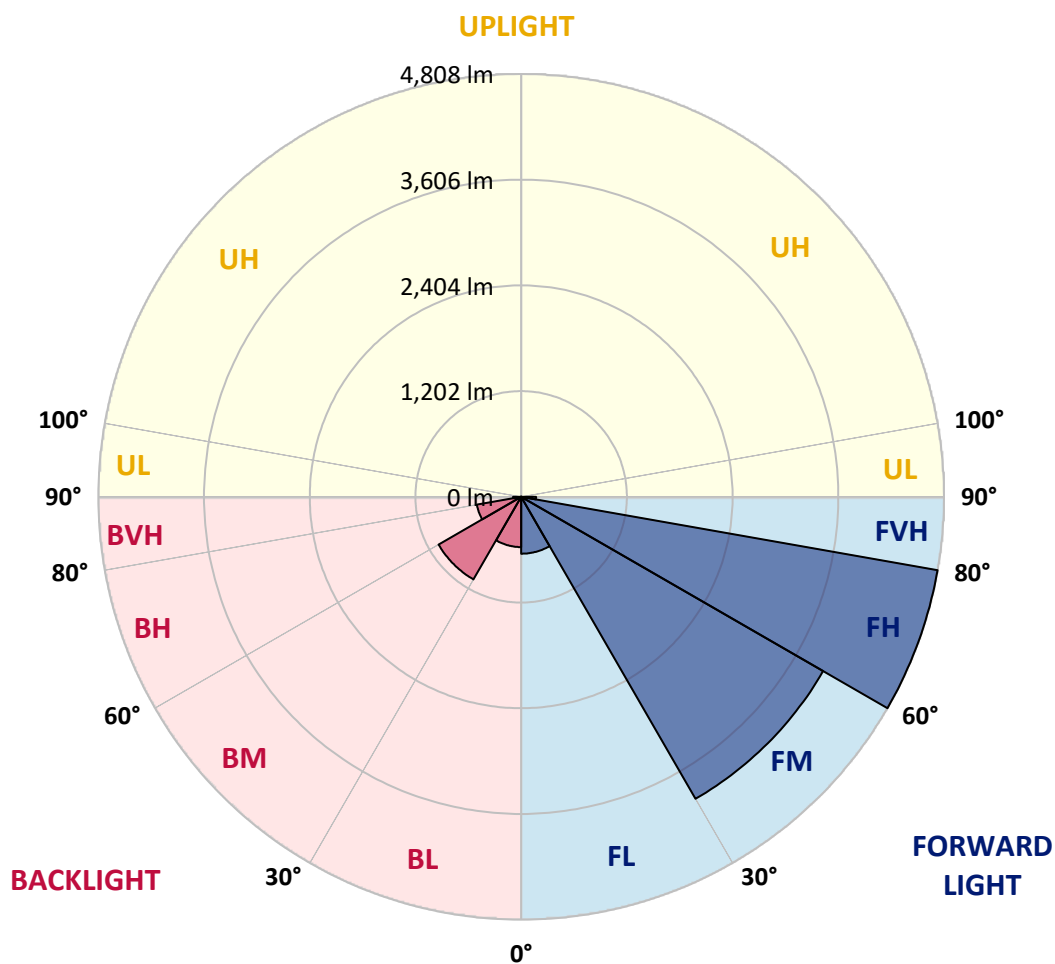
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	647.4	5.5			
FM	(30°-60°)	3964.8	33.5			
FH	(60°-80°)	4808.4	40.6			G2/5000
FVH	(80°-90°)	168.6	1.4			G2/225
BL	(0°-30°)	571.9	4.8	B2/1000		
BM	(30°-60°)	1084.5	9.2	B2/2500		
BH	(60°-80°)	511.3	4.3	B2/1000		G2/1000
BVH	(80°-90°)	92.3	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-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1788.3	1788.3	1788.3	1788.3	1788.3	1788.3	1788.3	1788.3	1788.3	1788.3	1788.3
2.5°	1717.9	1721.3	1717.2	1722.4	1730.8	1740.1	1746.3	1755.4	1765.6	1779.9	1783.3
5°	1637.0	1642.1	1642.1	1651.2	1667.8	1682.6	1696.2	1711.0	1732.7	1757.1	1766.8
7.5°	1548.3	1551.2	1556.3	1569.9	1593.8	1614.9	1634.2	1658.1	1687.7	1720.2	1737.2
10°	1441.3	1445.3	1453.2	1472.6	1505.0	1534.1	1562.0	1594.9	1632.6	1672.9	1694.5
12.5°	1365.6	1364.5	1367.9	1382.1	1410.5	1445.8	1486.3	1528.3	1574.4	1621.7	1647.8
15°	1340.1	1333.7	1320.7	1317.2	1332.6	1367.9	1414.6	1466.4	1521.6	1578.5	1610.9
17.5°	1355.9	1345.2	1309.3	1283.1	1280.8	1307.7	1357.1	1415.1	1478.9	1548.3	1588.6
20°	1456.1	1430.5	1342.2	1281.4	1260.5	1273.4	1316.7	1378.2	1453.2	1545.5	1597.3
22.5°	1695.7	1658.1	1470.8	1357.6	1286.5	1270.5	1303.0	1368.5	1456.1	1580.8	1646.7
25°	2044.5	1990.9	1691.7	1547.7	1400.9	1316.1	1323.5	1390.7	1496.6	1662.7	1742.3
27.5°	2319.9	2285.1	1980.3	1815.7	1609.2	1439.1	1390.1	1446.5	1579.1	1797.0	1878.2
30°	2483.8	2462.7	2288.6	2119.5	1874.9	1634.7	1517.6	1551.2	1708.2	1983.0	2050.1
32.5°	2673.8	2661.2	2575.9	2420.5	2161.7	1892.0	1719.5	1707.6	1881.1	2206.6	2237.4
35°	2870.7	2866.6	2816.6	2705.0	2469.5	2231.1	1987.5	1906.8	2069.5	2438.7	2419.4
37.5°	3053.9	3047.0	3018.1	2953.2	2791.6	2595.2	2260.7	2111.0	2272.6	2660.7	2574.8
40°	3391.3	3337.9	3238.2	3189.3	3117.0	2901.9	2477.5	2301.6	2483.1	2872.4	2709.1
42.5°	3802.7	3715.7	3530.1	3463.0	3452.8	3143.8	2625.4	2486.6	2695.4	3082.3	2841.1
45°	4126.5	4044.6	3884.6	3799.8	3837.4	3362.9	2774.0	2684.1	2914.0	3302.6	2977.1
47.5°	4471.9	4343.3	4131.6	4157.2	4239.2	3569.9	2925.3	2896.3	3153.4	3549.0	3146.1
50°	4484.4	4386.0	4293.3	4446.3	4573.7	3760.6	3114.8	3118.8	3446.5	3859.0	3370.8
52.5°	4224.4	4203.3	4350.7	4591.4	4775.1	3911.4	3330.4	3348.7	3821.5	4215.2	3617.8
55°	4133.3	4109.5	4279.5	4540.7	4802.5	4036.0	3564.2	3597.3	4275.0	4590.7	3858.5
57.5°	4355.2	4302.3	4313.7	4516.8	4735.9	4172.6	3819.2	3885.8	4767.7	4919.1	4013.2
60°	4975.4	4862.2	4647.2	4642.0	4771.8	4377.4	4113.9	4195.3	5279.9	5076.1	3952.9
62.5°	5845.5	5732.3	5329.3	5067.0	5047.7	4715.4	4475.8	4497.4	5575.7	4863.3	3584.8
65°	6787.1	6685.9	6235.9	5865.4	5686.7	5275.4	4896.4	4632.4	5479.1	4277.8	2940.6
67.5°	7930.4	7821.7	7434.8	7092.8	6920.9	6178.9	5191.7	4503.1	4865.1	3314.0	2113.8
70°	8729.9	8618.8	8466.4	8743.5	9163.9	7482.5	5229.8	3978.0	3633.8	2202.6	1272.4
72.5°	7686.8	7635.0	7913.2	9080.3	10831.8	8273.4	4727.3	2896.3	2110.5	1169.3	736.3
73°	7042.7	7031.3	7505.9	8844.2	10843.7	8151.8	4507.2	2692.0	1810.0	1034.4	673.1
75°	3180.2	3271.9	4312.0	6755.3	9421.1	6717.2	3172.3	1544.3	1022.5	714.7	508.2
77.5°	764.2	796.1	1349.2	3208.1	5949.6	4003.0	1437.3	763.6	653.8	504.7	371.1
80°	325.5	336.3	519.5	1185.3	2801.3	1612.0	662.3	511.6	452.4	352.3	260.0
82.5°	181.0	192.3	294.8	537.7	1130.7	549.7	404.0	356.1	297.6	212.3	169.1
85°	102.3	108.7	172.4	300.5	479.1	220.8	241.8	236.6	167.8	109.3	83.0
87.5°	48.4	52.3	83.0	139.5	187.8	86.6	122.9	135.4	105.2	66.5	43.2
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°	1788.3	1788.3	1788.3	1788.3	1788.3	1788.3	1788.3	1788.3	1788.3	1788.3
2.5°	1787.3	1797.6	1809.5	1815.7	1821.5	1828.2	1835.1	1835.1	1836.2	1836.7
5°	1774.7	1795.7	1814.6	1822.6	1824.3	1824.3	1822.6	1813.4	1805.5	1808.9
7.5°	1748.5	1779.3	1795.2	1792.4	1770.8	1745.8	1724.6	1699.1	1686.0	1683.6
10°	1711.0	1746.3	1749.1	1720.8	1667.2	1613.8	1569.3	1526.2	1505.6	1500.4
12.5°	1669.5	1701.9	1683.6	1625.1	1539.1	1461.3	1404.8	1361.1	1341.7	1336.6
15°	1635.9	1658.1	1612.0	1519.8	1411.7	1329.2	1282.6	1250.2	1236.5	1232.5
17.5°	1618.2	1622.8	1538.6	1414.1	1299.1	1230.3	1201.2	1185.8	1180.6	1177.9
20°	1626.8	1594.9	1468.7	1315.6	1206.9	1158.4	1151.7	1147.7	1146.5	1144.8
22.5°	1669.5	1586.5	1404.3	1222.3	1126.0	1105.0	1110.7	1110.2	1109.0	1107.9
25°	1745.8	1593.8	1341.7	1133.4	1058.4	1053.8	1064.0	1064.0	1059.5	1059.5
27.5°	1846.5	1609.2	1271.8	1049.2	996.9	997.4	1005.4	1003.2	998.1	994.6
30°	1969.4	1618.9	1189.9	973.6	939.4	937.1	939.4	929.8	914.4	913.3
32.5°	2095.1	1606.8	1094.8	906.5	878.6	873.4	871.8	858.1	840.4	835.3
35°	2208.9	1563.1	998.1	853.0	820.5	809.2	817.1	812.6	796.6	792.6
37.5°	2291.9	1481.7	911.0	805.7	779.0	776.2	781.2	783.0	764.2	760.2
40°	2347.8	1371.3	836.5	765.9	771.1	760.2	743.2	731.2	725.5	723.8
42.5°	2392.7	1256.4	773.9	747.2	772.7	741.5	704.4	685.0	695.3	700.0
45°	2444.4	1144.3	721.5	723.8	764.2	719.8	677.7	659.0	662.8	664.1
47.5°	2515.5	1007.7	665.2	686.2	735.8	705.0	661.2	634.5	615.6	607.2
50°	2614.0	846.1	606.6	644.1	707.9	694.3	635.6	607.2	572.4	564.5
52.5°	2682.4	695.3	558.2	608.8	682.8	672.6	615.1	578.1	541.7	534.9
55°	2645.3	577.6	516.1	569.6	649.8	645.8	598.0	548.5	520.1	514.4
57.5°	2460.4	503.0	483.7	532.6	609.4	623.1	575.2	523.5	503.0	499.0
60°	2107.6	456.3	463.2	507.5	576.5	600.3	552.6	509.8	496.1	493.3
62.5°	1635.4	425.0	447.9	489.4	550.7	584.4	540.0	508.2	503.0	499.7
65°	1171.6	400.0	431.3	471.1	527.5	569.6	535.5	505.9	507.0	504.1
67.5°	796.1	377.8	411.4	450.7	504.7	556.4	529.2	497.9	512.1	508.7
70°	557.1	356.1	388.1	424.5	476.3	538.3	517.8	485.9	484.8	471.1
72.5°	434.8	327.8	356.1	388.1	439.9	512.7	495.1	459.2	440.5	426.2
73°	414.8	320.9	348.2	380.1	431.9	506.4	488.8	451.8	430.7	417.7
75°	343.1	291.2	316.5	344.8	397.7	476.8	458.1	418.3	391.4	383.5
77.5°	269.8	249.2	273.1	298.8	350.5	433.5	412.6	374.4	359.6	352.8
80°	199.7	206.5	227.6	250.3	303.8	387.6	368.8	330.6	396.6	380.1
82.5°	140.5	156.5	175.8	196.3	254.9	342.5	319.8	280.6	290.2	241.3
85°	83.0	102.3	120.6	138.3	183.8	284.0	264.0	223.7	183.2	174.7
87.5°	48.4	57.0	62.1	80.2	126.3	213.9	186.1	165.6	95.0	64.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)