

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: P194790

Luminaire Tested: **GLEON-AF-02-LED-E1-T3-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194790
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-T3-7060
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12181 lumens
Efficiency: N/A
Efficacy: 107.8 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): 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

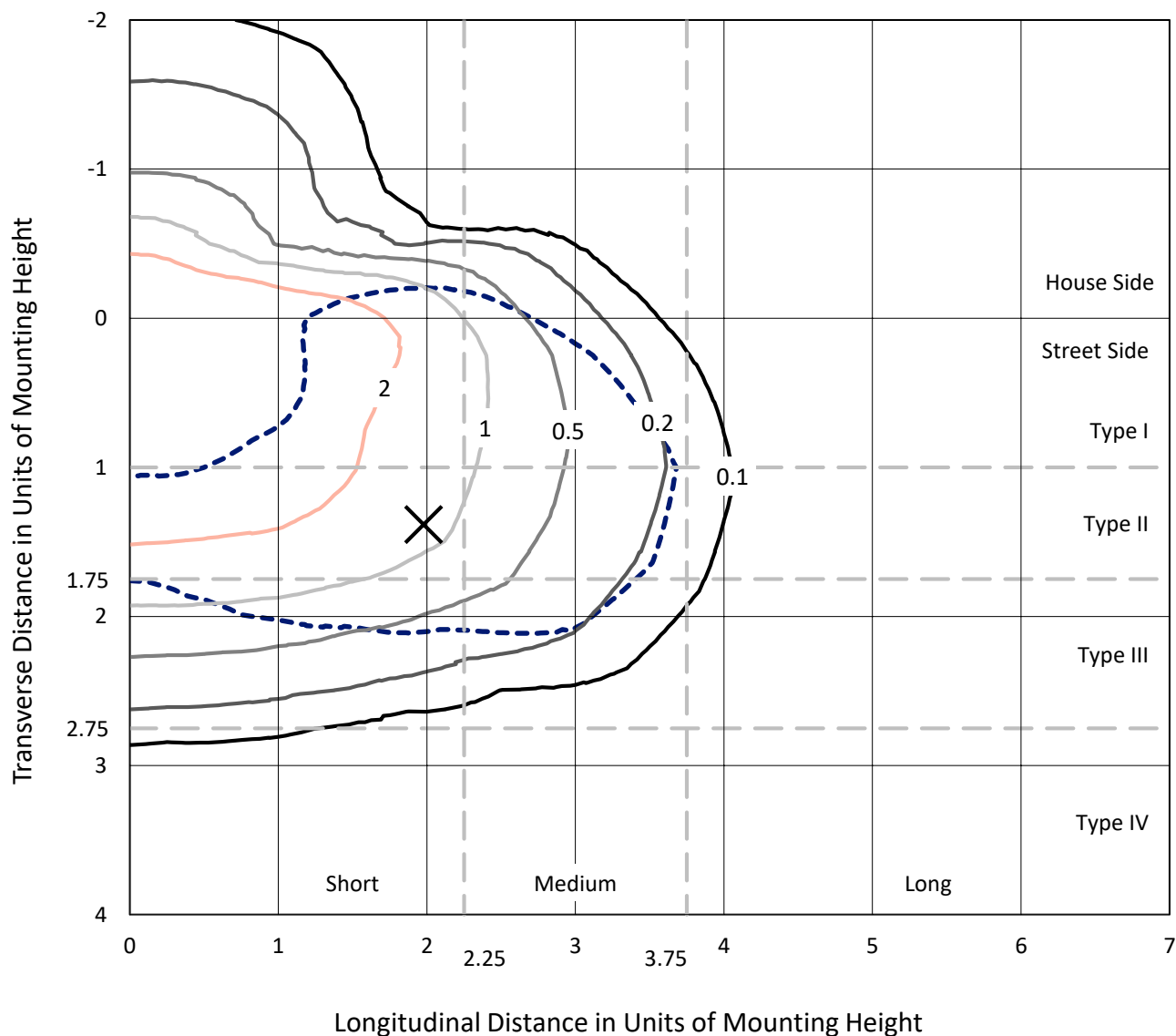


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

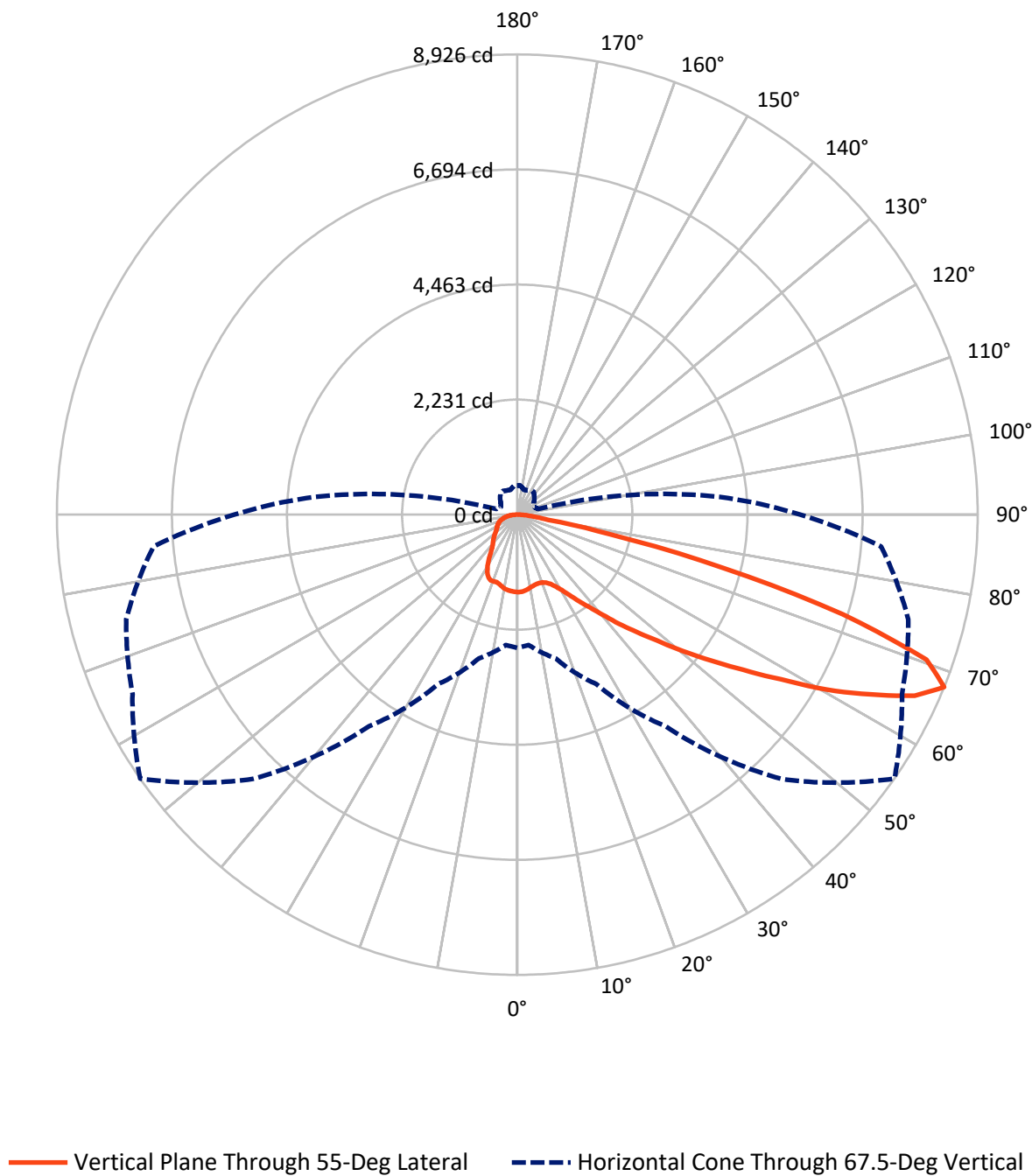


Based on 20 foot mounting height. Maximum calculated value = 3.9 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2631.4	0.0	2631.4
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	9549.6	0.0	9549.6
	% Fixture	78.4	0.0	78.4
Total	Lumens	12181.0	0.0	12181.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.2	1.2
10°-20°	397.1	3.3
20°-30°	665.1	5.5
30°-40°	1093.8	9.0
40°-50°	1841.2	15.1
50°-60°	2897.9	23.8
60°-70°	3458.3	28.4
70°-80°	1485.1	12.2
80°-90°	202.5	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°	12181.0	100.0
0°-180°	12181.0	100.0

Coefficient of Utilization



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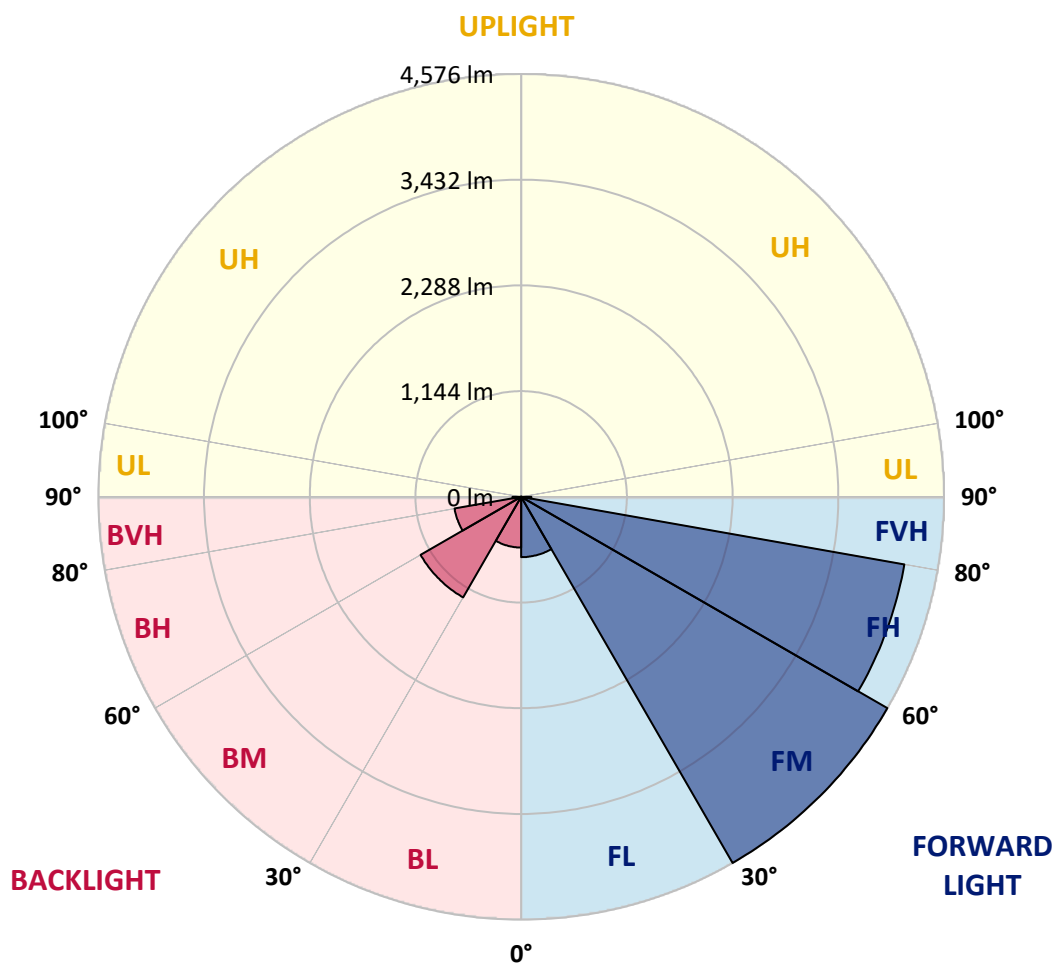
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	652.9	5.4			
FM	(30°-60°)	4576.1	37.6			
FH	(60°-80°)	4211.0	34.6			G2/5000
FVH	(80°-90°)	109.6	0.9			G2/225
BL	(0°-30°)	549.5	4.5	B2/1000		
BM	(30°-60°)	1256.7	10.3	B2/2500		
BH	(60°-80°)	732.3	6.0	B2/1000		G2/1000
BVH	(80°-90°)	92.9	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1502.1	1502.1	1502.1	1502.1	1502.1	1502.1	1502.1	1502.1	1502.1	1502.1	1502.1
2.5°	1489.1	1489.7	1490.9	1495.6	1499.7	1498.5	1499.1	1496.8	1496.2	1492.6	1496.2
5°	1470.3	1472.0	1472.6	1480.3	1485.0	1486.2	1484.4	1481.5	1477.9	1474.4	1476.2
7.5°	1427.3	1432.0	1432.6	1443.2	1450.9	1460.9	1461.5	1462.0	1460.3	1457.9	1461.5
10°	1400.3	1401.4	1400.9	1408.5	1414.4	1425.6	1432.0	1443.2	1447.9	1449.1	1451.5
12.5°	1398.5	1397.3	1395.6	1395.6	1393.8	1398.5	1410.3	1426.2	1437.3	1440.9	1443.8
15°	1417.3	1416.7	1410.9	1402.0	1390.9	1387.3	1397.3	1415.0	1429.7	1437.3	1440.3
17.5°	1459.7	1456.2	1446.7	1426.7	1402.6	1393.2	1394.4	1409.1	1426.2	1436.2	1439.1
20°	1537.4	1537.4	1517.3	1479.7	1436.7	1414.4	1403.8	1412.6	1429.1	1442.6	1446.7
22.5°	1671.5	1672.7	1639.1	1577.4	1505.0	1457.3	1430.9	1429.1	1448.5	1463.8	1468.5
25°	1861.5	1856.8	1809.8	1721.5	1611.5	1532.6	1486.8	1476.2	1492.6	1509.7	1515.6
27.5°	2082.7	2065.7	2009.8	1903.3	1760.9	1645.6	1575.0	1557.9	1573.8	1593.2	1599.1
30°	2301.6	2284.0	2217.5	2101.0	1942.7	1796.8	1695.6	1668.0	1690.3	1718.0	1721.5
32.5°	2520.5	2520.5	2446.3	2310.4	2138.1	1977.4	1856.2	1823.3	1860.4	1893.9	1901.5
35°	2782.3	2783.5	2711.7	2548.1	2362.8	2192.8	2059.2	2035.1	2091.0	2114.5	2132.8
37.5°	3104.1	3110.6	3018.2	2820.5	2617.6	2438.7	2279.8	2246.9	2302.8	2366.9	2425.8
40°	3451.8	3460.1	3358.3	3114.7	2911.7	2724.6	2552.8	2493.4	2586.4	2708.8	2784.6
42.5°	3783.7	3826.0	3727.8	3477.1	3258.9	3065.3	2891.1	2804.7	2921.1	3105.9	3171.8
45°	4263.2	4293.8	4122.5	3895.4	3690.1	3473.6	3243.0	3151.8	3314.7	3547.7	3561.3
47.5°	4582.6	4559.7	4472.6	4331.4	4201.4	3999.0	3651.9	3551.9	3768.4	4042.5	3966.6
50°	4752.7	4759.7	4748.0	4756.2	4760.9	4633.8	4153.1	4016.1	4274.3	4605.6	4430.8
52.5°	4911.5	4864.5	4903.3	5096.3	5329.2	5282.2	4698.5	4555.6	4816.8	5230.4	4921.5
55°	4908.0	4836.2	4962.7	5303.4	5808.8	5862.9	5311.0	5146.3	5390.4	5900.5	5441.6
57.5°	4734.4	4738.0	4932.7	5378.7	6142.9	6408.9	6021.7	5774.6	5998.8	6579.5	5916.4
60°	4495.6	4527.9	4808.6	5366.3	6410.6	6856.6	6893.7	6451.8	6594.8	7196.7	6309.4
62.5°	4110.2	4144.3	4531.4	5238.1	6370.0	7287.9	7682.0	7220.2	7217.8	7570.9	6424.8
65°	3502.4	3492.4	3899.0	4758.6	6029.4	7606.7	8465.1	7884.4	7687.3	7576.7	6192.9
67.5°	2582.8	2538.1	2887.0	3624.2	5011.5	7249.6	8925.8	8230.4	7847.4	7078.4	5484.6
70°	1340.3	1295.5	1577.9	2116.3	3295.9	5658.1	8415.7	8051.5	7493.8	5933.5	4296.7
72.5°	573.1	565.4	680.1	928.4	1594.4	3263.6	6598.9	6969.0	6430.0	4420.8	2954.1
75°	385.4	383.0	426.0	506.0	717.2	1324.4	4129.6	4946.8	4704.4	2741.1	1661.5
77.5°	302.4	299.5	324.8	363.6	464.8	522.5	1832.7	2655.8	2458.1	1193.2	727.2
80°	236.5	234.2	250.0	271.2	334.2	329.5	603.1	1056.7	817.8	457.1	353.6
82.5°	186.5	186.5	199.4	200.0	237.1	224.7	314.8	465.4	408.3	266.5	216.5
85°	170.6	170.6	184.2	149.4	154.7	141.8	195.3	275.9	258.9	109.4	94.1
87.5°	85.9	83.5	154.7	132.4	84.1	75.3	95.3	133.6	143.6	60.6	47.1
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°	1502.1	1502.1	1502.1	1502.1	1502.1	1502.1	1502.1	1502.1	1502.1	1502.1
2.5°	1495.0	1494.4	1495.6	1496.2	1500.9	1507.3	1510.3	1514.4	1516.8	1515.6
5°	1477.3	1478.5	1483.2	1486.8	1495.0	1505.6	1511.5	1516.2	1520.3	1518.5
7.5°	1462.6	1465.6	1472.6	1475.6	1480.3	1483.2	1482.6	1484.4	1487.9	1483.8
10°	1454.4	1457.9	1463.2	1459.1	1447.9	1432.0	1417.3	1409.7	1412.0	1409.1
12.5°	1446.2	1450.9	1446.7	1427.3	1396.1	1375.6	1364.4	1365.6	1370.8	1372.0
15°	1441.5	1443.2	1425.6	1389.1	1357.3	1354.4	1360.3	1359.1	1359.7	1359.7
17.5°	1441.5	1436.7	1403.8	1367.3	1353.8	1348.5	1330.3	1307.3	1297.3	1293.8
20°	1449.1	1436.7	1396.7	1372.6	1343.2	1297.9	1249.6	1207.3	1188.5	1183.2
22.5°	1472.0	1450.9	1416.7	1375.0	1291.4	1215.5	1139.0	1088.4	1054.3	1048.4
25°	1518.5	1495.0	1456.2	1343.8	1209.1	1100.8	1013.7	957.2	923.1	918.4
27.5°	1599.7	1584.4	1477.3	1274.9	1099.6	983.7	903.1	859.6	834.3	832.5
30°	1722.1	1714.4	1466.7	1173.2	964.9	870.2	831.3	806.0	787.2	786.6
32.5°	1917.4	1855.6	1432.0	1049.0	841.9	789.6	773.7	758.4	743.7	743.7
35°	2168.6	1969.8	1366.1	916.1	767.2	744.8	724.8	700.7	681.3	680.1
37.5°	2464.0	2040.4	1247.9	809.0	731.9	714.8	685.4	649.5	615.4	609.5
40°	2762.3	2061.6	1081.4	743.1	709.5	684.8	648.9	606.6	573.6	571.9
42.5°	3035.9	2021.0	904.9	697.8	687.2	654.2	616.6	578.9	553.0	552.5
45°	3265.3	1915.7	756.6	654.8	663.7	626.6	593.1	562.5	542.5	538.3
47.5°	3481.3	1766.8	652.5	609.5	640.1	611.3	583.1	554.2	534.8	531.9
50°	3731.9	1606.2	579.5	565.4	619.5	606.0	591.3	561.3	528.9	525.4
52.5°	4035.5	1467.3	522.5	526.6	603.6	613.1	612.5	581.3	524.8	520.1
55°	4374.4	1313.2	479.5	494.8	597.2	626.0	617.8	600.1	528.3	521.3
57.5°	4708.0	1133.2	449.5	470.7	587.8	624.8	592.5	567.2	536.6	526.6
60°	4958.0	891.3	426.6	449.5	567.2	605.4	564.8	531.3	534.8	527.2
62.5°	4974.5	689.0	398.9	431.3	536.0	586.0	546.6	515.4	542.5	535.4
65°	4682.1	520.7	372.4	409.5	502.4	573.6	528.9	506.6	558.3	550.7
67.5°	3941.9	418.9	350.1	387.1	468.9	547.8	513.0	498.3	572.5	558.9
70°	2845.8	357.1	328.3	360.1	438.9	518.3	498.9	483.6	534.2	513.0
72.5°	1752.1	309.5	303.6	324.2	416.0	487.7	477.7	456.0	481.3	464.2
75°	874.9	268.3	275.9	288.9	383.6	453.0	442.4	420.7	424.2	420.7
77.5°	418.9	229.5	243.6	253.6	341.8	413.6	402.4	380.1	376.0	376.5
80°	265.3	191.8	205.3	212.4	305.4	367.7	356.5	334.2	381.2	353.6
82.5°	165.9	155.9	159.4	172.4	265.9	320.1	305.4	285.3	343.6	271.8
85°	91.8	108.8	113.6	124.7	204.7	267.7	253.0	227.7	204.2	200.6
87.5°	54.7	64.7	66.5	74.7	137.7	193.6	171.2	162.4	134.7	134.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)