

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: P192370

Luminaire Tested: **GLEON-AF-02-LED-E1-T4W-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192370
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
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-T4W-7050
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12094 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-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

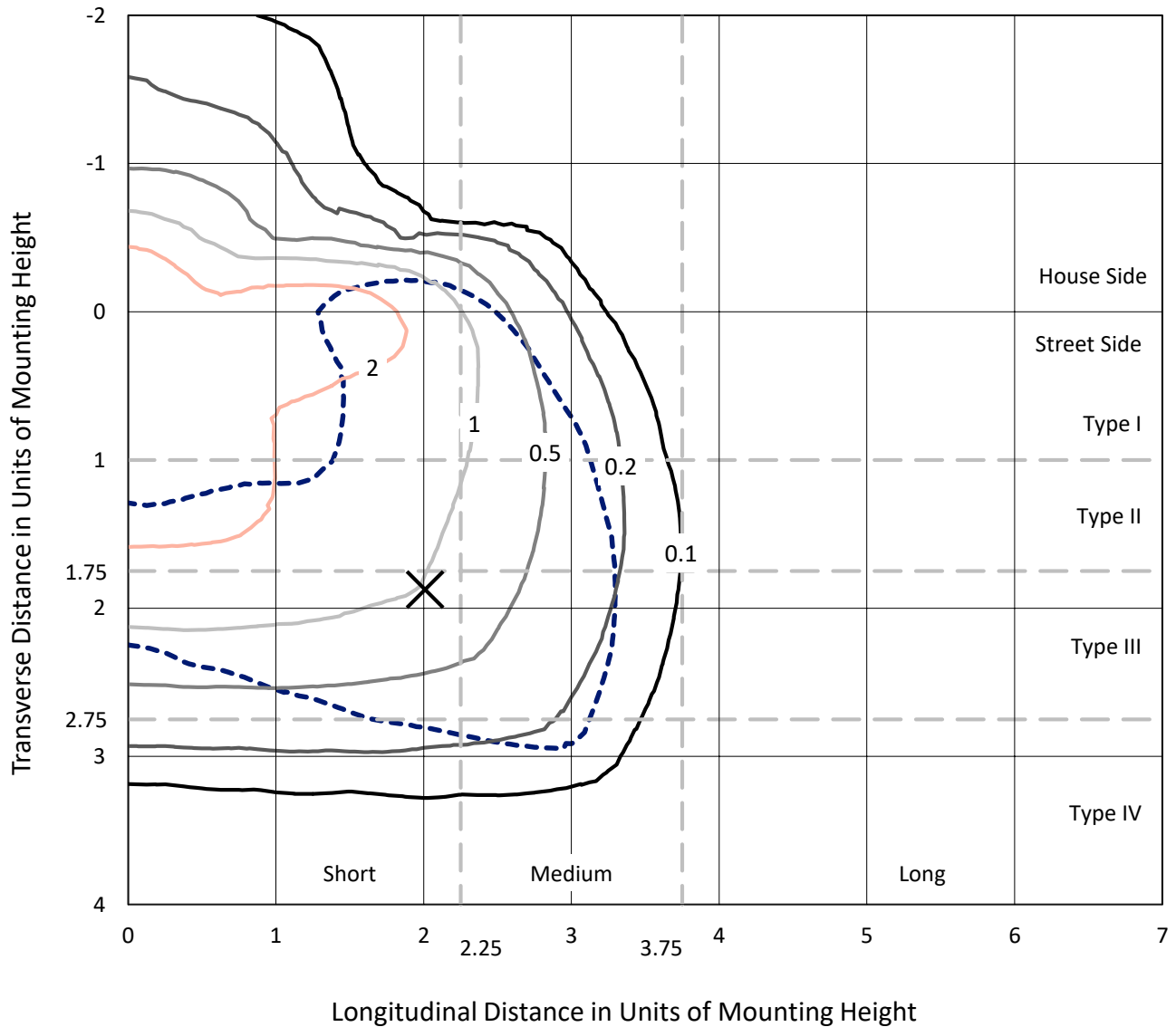


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Iso-Footcandle Lines of Horizontal Illumination

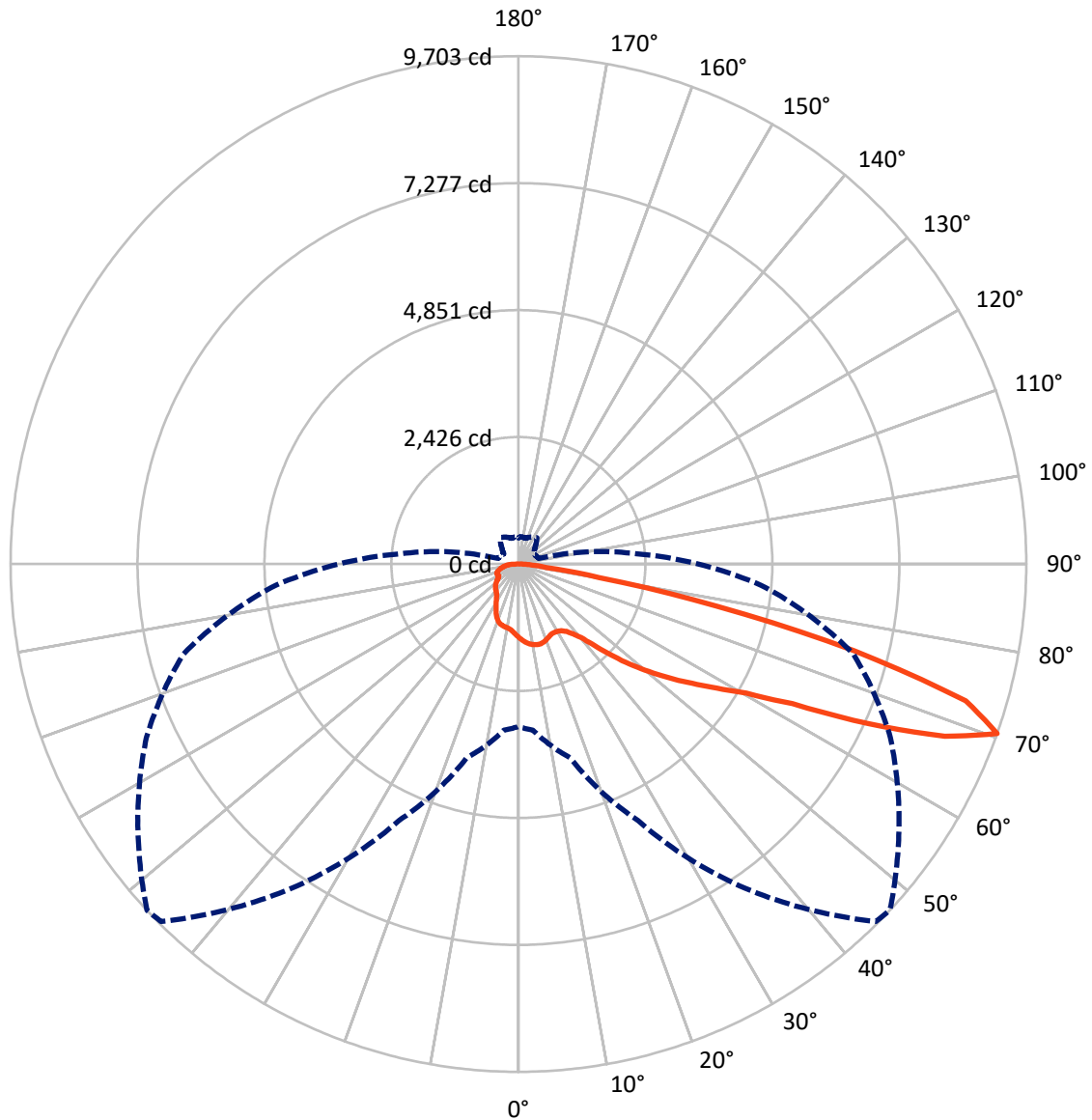
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2523.0	0.0	2523.0
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	9571.0	0.0	9571.0
	% Fixture	79.1	0.0	79.1
Total	Lumens	12094.0	0.0	12094.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.5	1.1
10°-20°	394.5	3.3
20°-30°	582.5	4.8
30°-40°	846.7	7.0
40°-50°	1523.7	12.6
50°-60°	2639.7	21.8
60°-70°	3767.6	31.2
70°-80°	1934.1	16.0
80°-90°	270.8	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°	12094.0	100.0
0°-180°	12094.0	100.0

Coefficient of Utilization



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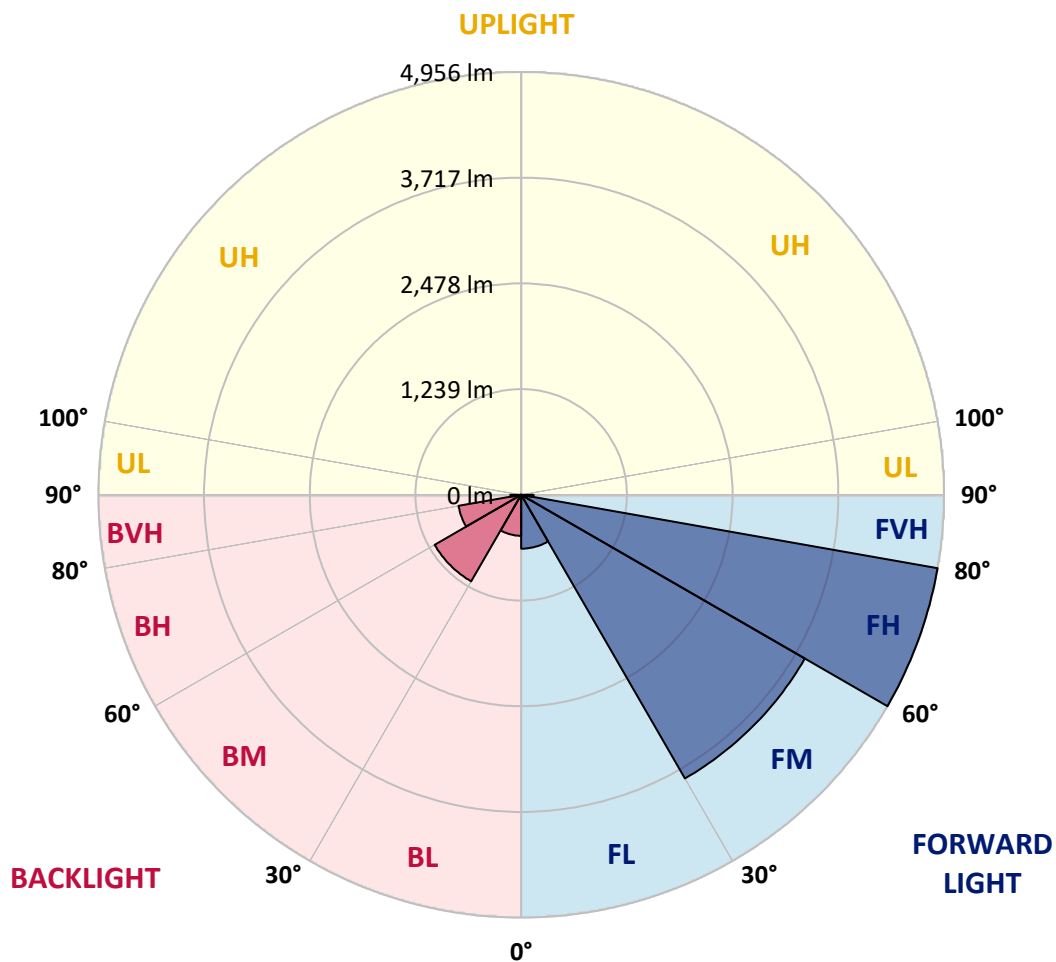
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	631.0	5.2			
FM	(30°-60°)	3839.0	31.7			
FH	(60°-80°)	4956.5	41.0			G2/5000
FVH	(80°-90°)	144.5	1.2			G2/225
BL	(0°-30°)	480.4	4.0	B1/500		
BM	(30°-60°)	1171.1	9.7	B2/2500		
BH	(60°-80°)	745.2	6.2	B2/1000		G2/1000
BVH	(80°-90°)	126.3	1.0			G2/225
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°	47°	55°	65°	75°	85°
0°	1403.3	1403.3	1403.3	1403.3	1403.3	1403.3	1403.3	1403.3	1403.3	1403.3	1403.3
2.5°	1485.7	1482.7	1481.5	1479.2	1476.2	1461.5	1458.6	1448.0	1433.3	1418.0	1402.1
5°	1583.3	1582.7	1576.3	1564.5	1545.7	1513.3	1505.7	1479.8	1445.1	1411.5	1378.0
7.5°	1669.2	1663.9	1651.6	1628.0	1595.1	1551.0	1540.4	1504.5	1456.8	1410.9	1365.6
10°	1732.2	1729.2	1702.2	1669.8	1626.9	1578.0	1565.7	1525.7	1473.3	1415.0	1358.6
12.5°	1768.1	1762.2	1731.0	1692.2	1641.0	1593.3	1581.0	1540.4	1481.5	1415.0	1348.6
15°	1765.7	1761.6	1730.4	1688.1	1636.3	1594.5	1583.3	1542.7	1479.8	1409.2	1335.6
17.5°	1718.7	1720.4	1693.9	1652.2	1609.8	1578.0	1568.0	1530.4	1468.0	1397.4	1320.3
20°	1636.3	1644.5	1626.9	1589.8	1566.3	1544.5	1538.0	1506.2	1449.8	1380.3	1303.8
22.5°	1553.9	1561.6	1554.5	1523.3	1519.8	1506.8	1503.3	1480.4	1433.9	1369.7	1293.8
25°	1493.3	1500.4	1499.2	1472.1	1482.7	1482.1	1479.2	1468.0	1430.3	1369.7	1295.6
27.5°	1476.8	1479.2	1476.8	1452.1	1466.8	1478.6	1476.2	1474.5	1440.9	1386.8	1318.0
30°	1533.3	1529.8	1511.5	1461.5	1475.1	1491.5	1489.2	1490.4	1472.7	1431.5	1368.0
32.5°	1758.7	1742.8	1685.1	1544.5	1508.6	1517.4	1518.6	1538.0	1541.0	1500.4	1445.6
35°	2095.8	2078.1	2003.4	1766.9	1612.7	1582.1	1582.1	1611.6	1629.2	1599.2	1566.3
37.5°	2452.9	2433.5	2393.5	2075.2	1831.6	1694.5	1691.6	1712.2	1737.5	1744.5	1752.8
40°	2858.9	2838.3	2849.5	2421.2	2137.0	1889.3	1847.5	1832.8	1901.0	1946.4	2012.3
42.5°	3303.2	3293.7	3297.9	2806.6	2484.7	2180.5	2121.1	2045.2	2127.6	2208.2	2346.4
45°	3714.4	3722.7	3718.5	3219.0	2871.9	2535.9	2473.0	2325.9	2406.5	2544.7	2770.1
47.5°	4074.5	4040.4	4093.3	3669.7	3305.5	2933.7	2856.0	2658.9	2740.7	2911.3	3292.6
50°	4511.7	4507.0	4429.3	4271.0	3829.7	3333.2	3231.4	3003.1	3130.2	3367.3	3951.0
52.5°	4971.2	4885.9	4814.7	4738.8	4385.8	3742.7	3617.9	3346.1	3587.9	3886.2	4753.5
55°	5065.3	5027.1	5115.4	5243.0	4921.8	4168.1	4022.7	3776.2	4103.3	4479.3	5679.0
57.5°	5266.6	5266.0	5448.4	5676.1	5473.7	4619.4	4472.8	4295.7	4682.9	5158.9	6661.6
60°	5402.5	5440.7	5779.6	6221.5	6015.6	5140.7	5005.9	4895.3	5341.9	5918.5	7577.1
62.5°	5473.7	5525.5	5987.9	6442.7	6781.6	6008.5	5873.8	5714.3	6213.9	6751.6	8112.5
65°	5177.7	5279.5	5955.6	6634.0	7452.4	7415.3	7354.7	7074.7	7304.1	7410.0	7919.0
67.5°	4358.7	4462.8	5250.1	6455.7	7931.3	8772.1	8785.1	8306.7	7974.9	7466.5	6658.1
70°	3105.5	3187.2	3838.6	5412.5	7566.5	9658.8	9702.9	8874.5	7841.3	6621.6	4651.7
72.5°	1474.5	1524.5	2141.1	3522.6	6004.4	8849.8	8935.1	8149.6	6667.5	4902.4	2537.7
75°	541.9	557.2	723.7	1498.6	3482.6	6526.3	6626.9	5842.0	4419.9	2440.6	966.7
77.5°	324.8	334.8	406.0	632.5	1369.7	3730.3	3879.2	3177.2	1931.6	908.5	475.4
80°	227.1	234.2	291.2	393.6	647.2	1421.5	1553.9	1296.8	769.6	574.8	346.0
82.5°	153.6	157.1	204.8	265.9	430.1	507.8	547.8	576.6	518.9	427.8	219.5
85°	100.6	104.1	138.9	175.3	273.6	262.4	268.3	339.5	378.9	290.7	121.8
87.5°	57.7	60.0	83.5	93.6	134.2	111.2	112.4	178.9	242.4	195.9	74.1
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1403.3	1403.3	1403.3	1403.3	1403.3	1403.3	1403.3	1403.3	1403.3	1403.3	1403.3
2.5°	1398.0	1390.3	1373.3	1362.7	1352.7	1350.3	1346.2	1345.6	1345.0	1345.0	1343.3
5°	1366.8	1353.9	1327.4	1312.7	1300.3	1299.1	1298.5	1301.5	1302.7	1303.8	1302.1
7.5°	1346.8	1329.1	1296.2	1275.0	1260.3	1256.8	1262.7	1276.2	1285.0	1288.5	1286.8
10°	1334.4	1312.7	1274.4	1251.5	1239.1	1237.4	1245.0	1260.9	1279.1	1286.2	1285.6
12.5°	1320.3	1295.6	1255.0	1230.9	1223.8	1227.4	1237.4	1252.1	1270.9	1282.1	1282.7
15°	1306.2	1277.4	1235.6	1214.4	1211.5	1216.2	1225.6	1236.8	1251.5	1262.7	1263.8
17.5°	1289.1	1259.1	1217.4	1195.6	1193.2	1195.6	1196.2	1202.1	1211.5	1222.1	1225.0
20°	1270.9	1240.3	1196.8	1175.0	1164.4	1155.0	1144.4	1145.6	1148.5	1159.1	1161.5
22.5°	1258.0	1227.4	1180.9	1150.9	1122.6	1094.4	1073.2	1070.3	1071.4	1080.3	1083.2
25°	1259.1	1226.8	1176.8	1125.0	1063.2	1017.9	989.7	984.9	984.4	990.8	994.9
27.5°	1282.1	1249.7	1192.1	1098.5	998.5	931.4	901.4	897.9	893.2	894.9	899.6
30°	1333.3	1303.3	1229.1	1071.4	928.5	846.7	815.5	812.0	805.5	802.5	806.1
32.5°	1416.8	1392.1	1283.3	1045.5	858.4	774.3	742.5	734.9	730.8	727.2	730.2
35°	1555.7	1545.1	1355.6	1017.3	796.7	718.4	689.6	677.8	671.9	678.4	683.1
37.5°	1773.4	1779.3	1450.4	973.2	749.0	681.3	657.2	643.7	634.9	640.2	645.5
40°	2081.7	2085.8	1555.1	910.8	707.8	659.6	633.7	621.3	609.0	599.6	599.0
42.5°	2486.5	2444.7	1658.0	843.1	660.2	646.0	617.2	601.9	583.1	557.2	551.9
45°	2966.6	2820.1	1736.3	765.5	606.6	629.6	599.0	577.8	548.4	520.1	517.2
47.5°	3519.7	3223.1	1774.5	684.9	556.6	605.4	576.6	543.1	506.0	491.9	490.1
50°	4195.1	3701.5	1792.8	606.6	513.1	573.7	544.2	504.8	473.6	470.7	468.9
52.5°	4964.1	4276.9	1798.7	542.5	477.2	532.5	517.8	479.5	454.8	457.2	457.2
55°	5769.0	4871.2	1718.7	496.0	444.2	490.1	500.1	469.5	448.9	458.3	461.9
57.5°	6508.0	5397.8	1466.8	460.1	413.0	457.8	493.6	478.9	464.8	503.1	505.4
60°	7075.2	5709.0	1095.6	427.8	390.1	446.6	510.7	514.8	518.4	609.6	621.9
62.5°	7194.1	5605.5	753.1	402.5	379.5	456.0	541.9	542.5	538.4	601.9	609.6
65°	6648.7	4950.6	547.8	388.3	370.7	473.1	568.4	556.0	529.0	577.2	563.1
67.5°	5280.1	3729.7	456.0	377.7	357.7	471.9	596.6	568.4	523.7	565.4	542.5
70°	3427.3	2255.3	406.0	368.9	342.4	449.5	613.1	567.2	508.4	526.0	498.9
72.5°	1672.2	1008.5	372.4	356.0	326.5	418.3	612.5	556.6	492.5	491.3	476.6
75°	654.3	461.9	341.8	336.6	299.5	383.0	596.0	541.3	473.6	454.8	449.5
77.5°	383.0	329.5	303.0	307.7	267.1	347.7	571.9	514.8	447.8	425.4	419.5
80°	278.9	246.5	258.3	265.9	228.3	312.4	539.5	482.5	418.9	430.1	421.9
82.5°	178.9	158.9	209.5	217.1	190.0	276.5	504.2	448.3	378.3	343.6	335.4
85°	91.2	100.6	155.9	165.3	146.5	227.1	461.3	403.0	332.4	286.0	290.7
87.5°	51.2	68.8	99.4	111.2	103.6	174.7	374.2	332.4	271.2	220.6	194.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)