

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: P192380

Luminaire Tested: **GLEON-AF-02-LED-E1-T4W-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192380
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-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13267 lumens
Efficiency: N/A
Efficacy: 102.8 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 - G3

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

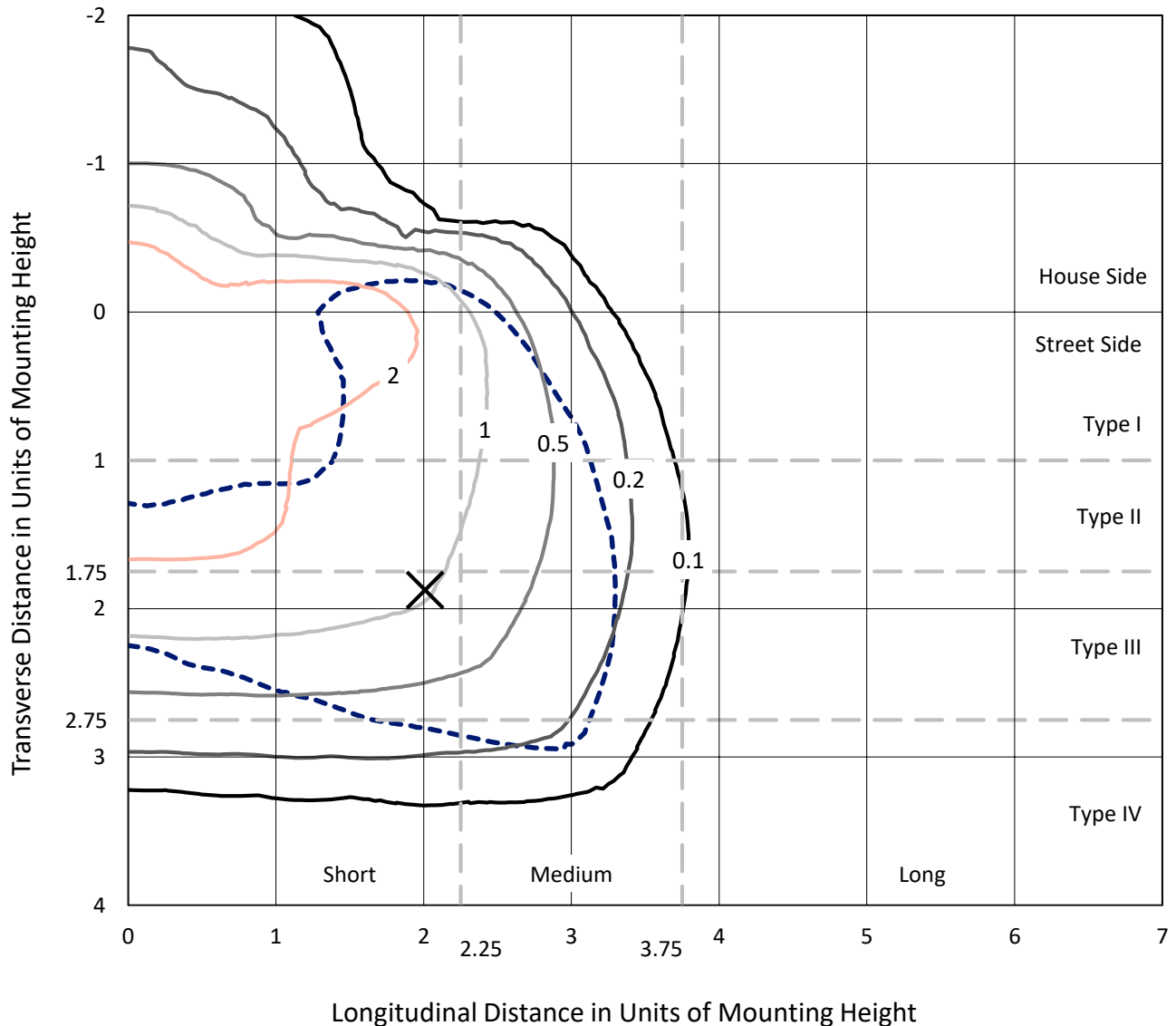


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

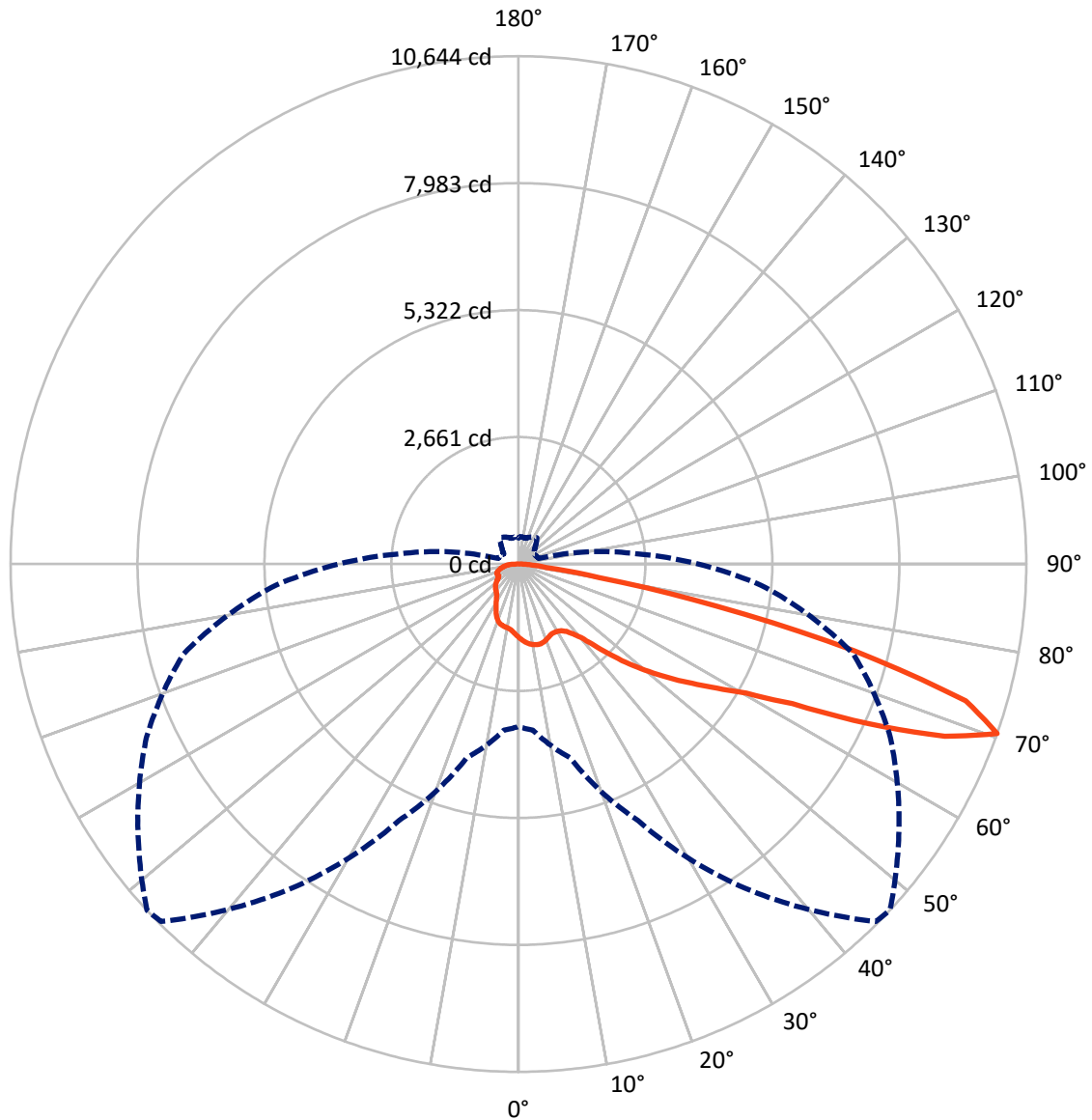


Based on 20 foot mounting height. Maximum calculated value = 4.4 fc
 Type IV - Short - Semi-Cutoff

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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	2767.8	0.0	2767.8
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	10499.2	0.0	10499.2
	% Fixture	79.1	0.0	79.1
Total	Lumens	13267.0	0.0	13267.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.5	1.1
10°-20°	432.7	3.3
20°-30°	639.0	4.8
30°-40°	928.8	7.0
40°-50°	1671.5	12.6
50°-60°	2895.7	21.8
60°-70°	4133.0	31.2
70°-80°	2121.7	16.0
80°-90°	297.0	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°	13267.0	100.0
0°-180°	13267.0	100.0



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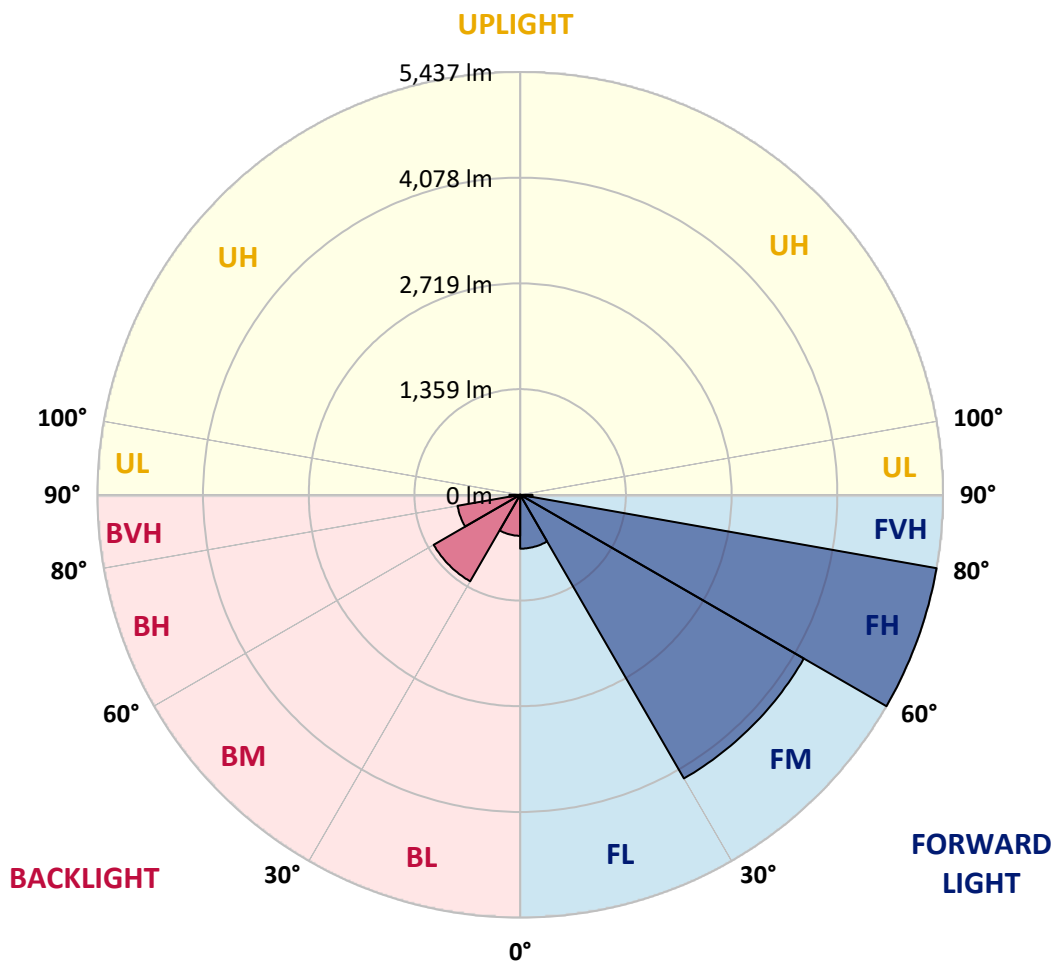
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	692.2	5.2			
FM	(30°-60°)	4211.3	31.7			
FH	(60°-80°)	5437.2	41.0			G3/7500
FVH	(80°-90°)	158.5	1.2			G2/225
BL	(0°-30°)	527.0	4.0	B2/1000		
BM	(30°-60°)	1284.7	9.7	B2/2500		
BH	(60°-80°)	817.5	6.2	B2/1000		G2/1000
BVH	(80°-90°)	138.5	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1539.4	1539.4	1539.4	1539.4	1539.4	1539.4	1539.4	1539.4	1539.4	1539.4	1539.4
2.5°	1629.7	1626.5	1625.2	1622.6	1619.4	1603.3	1600.1	1588.4	1572.3	1555.5	1538.1
5°	1736.9	1736.2	1729.1	1716.2	1695.6	1660.1	1651.7	1623.3	1585.2	1548.4	1511.6
7.5°	1831.1	1825.3	1811.8	1785.9	1749.8	1701.4	1689.8	1650.4	1598.1	1547.8	1498.1
10°	1900.2	1897.0	1867.3	1831.8	1784.7	1731.1	1717.5	1673.6	1616.2	1552.3	1490.3
12.5°	1939.6	1933.1	1898.9	1856.3	1800.1	1747.9	1734.3	1689.8	1625.2	1552.3	1479.4
15°	1937.0	1932.5	1898.3	1851.8	1795.0	1749.2	1736.9	1692.4	1623.3	1545.8	1465.2
17.5°	1885.3	1887.3	1858.2	1812.4	1765.9	1731.1	1720.1	1678.8	1610.4	1532.9	1448.4
20°	1795.0	1804.0	1784.7	1744.0	1718.2	1694.3	1687.2	1652.3	1590.4	1514.2	1430.3
22.5°	1704.6	1713.0	1705.3	1671.1	1667.2	1653.0	1649.1	1623.9	1572.9	1502.6	1419.3
25°	1638.1	1645.9	1644.6	1614.9	1626.5	1625.9	1622.6	1610.4	1569.1	1502.6	1421.3
27.5°	1620.1	1622.6	1620.1	1593.0	1609.1	1622.0	1619.4	1617.5	1580.7	1521.3	1445.8
30°	1682.0	1678.2	1658.1	1603.3	1618.1	1636.2	1633.6	1634.9	1615.5	1570.4	1500.7
32.5°	1929.2	1911.8	1848.6	1694.3	1654.9	1664.6	1665.9	1687.2	1690.4	1645.9	1585.9
35°	2299.1	2279.7	2197.7	1938.3	1769.2	1735.6	1735.6	1767.9	1787.2	1754.3	1718.2
37.5°	2690.9	2669.6	2625.7	2276.5	2009.3	1858.9	1855.7	1878.2	1906.0	1913.7	1922.8
40°	3136.2	3113.6	3125.9	2656.0	2344.3	2072.5	2026.7	2010.6	2085.4	2135.1	2207.4
42.5°	3623.5	3613.2	3617.7	3078.8	2725.7	2392.0	2326.8	2243.6	2333.9	2422.4	2574.0
45°	4074.7	4083.7	4079.2	3531.2	3150.4	2781.9	2712.8	2551.4	2639.9	2791.5	3038.8
47.5°	4469.7	4432.3	4490.4	4025.6	3626.1	3218.2	3133.0	2916.8	3006.5	3193.7	3611.9
50°	4949.3	4944.1	4858.9	4685.3	4201.2	3656.4	3544.8	3294.3	3433.8	3693.9	4334.2
52.5°	5453.4	5359.8	5281.7	5198.4	4811.1	4105.7	3968.8	3670.6	3935.9	4263.2	5214.5
55°	5556.6	5514.7	5611.5	5751.6	5399.1	4572.3	4412.9	4142.5	4501.3	4913.8	6229.8
57.5°	5777.4	5776.7	5976.8	6226.6	6004.6	5067.4	4906.7	4712.4	5137.1	5659.3	7307.7
60°	5926.5	5968.4	6340.2	6824.9	6599.0	5639.2	5491.4	5370.1	5860.0	6492.5	8312.0
62.5°	6004.6	6061.4	6568.7	7067.6	7439.4	6591.3	6443.5	6268.6	6816.5	7406.5	8899.4
65°	5679.9	5791.6	6533.2	7277.4	8175.2	8134.5	8068.1	7760.8	8012.5	8128.7	8687.0
67.5°	4781.5	4895.7	5759.3	7081.8	8700.6	9622.9	9637.1	9112.4	8748.4	8190.7	7303.8
70°	3406.7	3496.4	4210.9	5937.4	8300.4	10595.6	10644.0	9735.2	8601.8	7263.8	5102.9
72.5°	1617.5	1672.3	2348.8	3864.3	6586.8	9708.1	9801.7	8940.1	7314.2	5377.8	2783.8
75°	594.5	611.2	793.9	1643.9	3820.4	7159.3	7269.6	6408.6	4848.6	2677.3	1060.5
77.5°	356.3	367.3	445.4	693.9	1502.6	4092.1	4255.4	3485.4	2119.0	996.6	521.5
80°	249.1	256.9	319.5	431.8	710.0	1559.4	1704.6	1422.6	844.2	630.6	379.5
82.5°	168.5	172.3	224.6	291.7	471.8	557.0	600.9	632.5	569.3	469.2	240.8
85°	110.4	114.2	152.3	192.3	300.1	287.9	294.3	372.4	415.7	318.8	133.6
87.5°	63.3	65.8	91.7	102.6	147.2	122.0	123.3	196.2	265.9	214.9	81.3
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°	1539.4	1539.4	1539.4	1539.4	1539.4	1539.4	1539.4	1539.4	1539.4	1539.4	1539.4
2.5°	1533.6	1525.2	1506.5	1494.8	1483.9	1481.3	1476.8	1476.1	1475.5	1475.5	1473.5
5°	1499.4	1485.2	1456.1	1440.0	1426.4	1425.1	1424.5	1427.7	1429.0	1430.3	1428.4
7.5°	1477.4	1458.1	1421.9	1398.7	1382.5	1378.7	1385.1	1400.0	1409.7	1413.5	1411.6
10°	1463.9	1440.0	1398.0	1372.9	1359.3	1357.4	1365.8	1383.2	1403.2	1410.9	1410.3
12.5°	1448.4	1421.3	1376.7	1350.3	1342.5	1346.4	1357.4	1373.5	1394.2	1406.4	1407.1
15°	1432.9	1401.3	1355.4	1332.2	1329.0	1334.1	1344.5	1356.7	1372.9	1385.1	1386.4
17.5°	1414.2	1381.3	1335.4	1311.5	1309.0	1311.5	1312.2	1318.6	1329.0	1340.6	1343.8
20°	1394.2	1360.6	1312.8	1289.0	1277.3	1267.0	1255.4	1256.7	1259.9	1271.5	1274.1
22.5°	1380.0	1346.4	1295.4	1262.5	1231.5	1200.5	1177.3	1174.1	1175.4	1185.0	1188.3
25°	1381.3	1345.8	1290.9	1234.1	1166.3	1116.6	1085.6	1080.5	1079.8	1086.9	1091.4
27.5°	1406.4	1370.9	1307.7	1205.0	1095.3	1021.7	988.8	984.9	979.8	981.7	986.9
30°	1462.6	1429.7	1348.3	1175.4	1018.5	928.8	894.6	890.7	883.6	880.4	884.3
32.5°	1554.2	1527.1	1407.7	1147.0	941.7	849.4	814.6	806.2	801.6	797.8	801.0
35°	1706.6	1694.9	1487.1	1116.0	873.9	788.1	756.5	743.6	737.1	744.2	749.4
37.5°	1945.4	1951.8	1591.0	1067.6	821.7	747.4	721.0	706.1	696.4	702.2	708.1
40°	2283.6	2288.1	1705.9	999.1	776.5	723.5	695.1	681.6	668.0	657.7	657.1
42.5°	2727.6	2681.8	1818.9	924.9	724.2	708.7	677.1	660.3	639.6	611.2	605.4
45°	3254.3	3093.6	1904.7	839.7	665.5	690.6	657.1	633.8	601.6	570.6	567.3
47.5°	3861.0	3535.7	1946.7	751.3	610.6	664.2	632.5	595.7	555.1	539.6	537.7
50°	4602.0	4060.5	1966.7	665.5	562.8	629.3	597.0	553.8	519.6	516.4	514.4
52.5°	5445.6	4691.7	1973.1	595.1	523.5	584.1	568.0	526.0	498.9	501.5	501.5
55°	6328.6	5343.6	1885.3	544.1	487.3	537.7	548.6	515.1	492.5	502.8	506.7
57.5°	7139.3	5921.3	1609.1	504.7	453.1	502.2	541.5	525.4	509.9	551.9	554.4
60°	7761.5	6262.7	1201.8	469.2	427.9	489.9	560.2	564.8	568.6	668.7	682.2
62.5°	7891.8	6149.1	826.2	441.5	416.3	500.2	594.5	595.1	590.6	660.3	668.7
65°	7293.5	5430.8	600.9	426.0	406.6	518.9	623.5	609.9	580.3	633.2	617.7
67.5°	5792.2	4091.5	500.2	414.4	392.4	517.6	654.5	623.5	574.4	620.3	595.1
70°	3759.7	2474.0	445.4	404.7	375.6	493.1	672.6	622.2	557.7	577.0	547.3
72.5°	1834.4	1106.3	408.6	390.5	358.2	458.9	671.9	610.6	540.2	538.9	522.8
75°	717.7	506.7	375.0	369.2	328.5	420.2	653.8	593.8	519.6	498.9	493.1
77.5°	420.2	361.4	332.4	337.6	293.0	381.5	627.4	564.8	491.2	466.7	460.2
80°	305.9	270.4	283.4	291.7	250.4	342.7	591.9	529.3	459.6	471.8	462.8
82.5°	196.2	174.3	229.8	238.2	208.5	303.4	553.1	491.8	415.0	376.9	367.9
85°	100.0	110.4	171.0	181.4	160.7	249.1	506.0	442.1	364.7	313.7	318.8
87.5°	56.2	75.5	109.1	122.0	113.6	191.7	410.5	364.7	297.5	242.0	213.0
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)