

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: P452213

Luminaire Tested: **GALN-SA3A-827-U-T3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452213  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA3A-827-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9952 lumens  
Efficiency: N/A  
Efficacy: 107.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

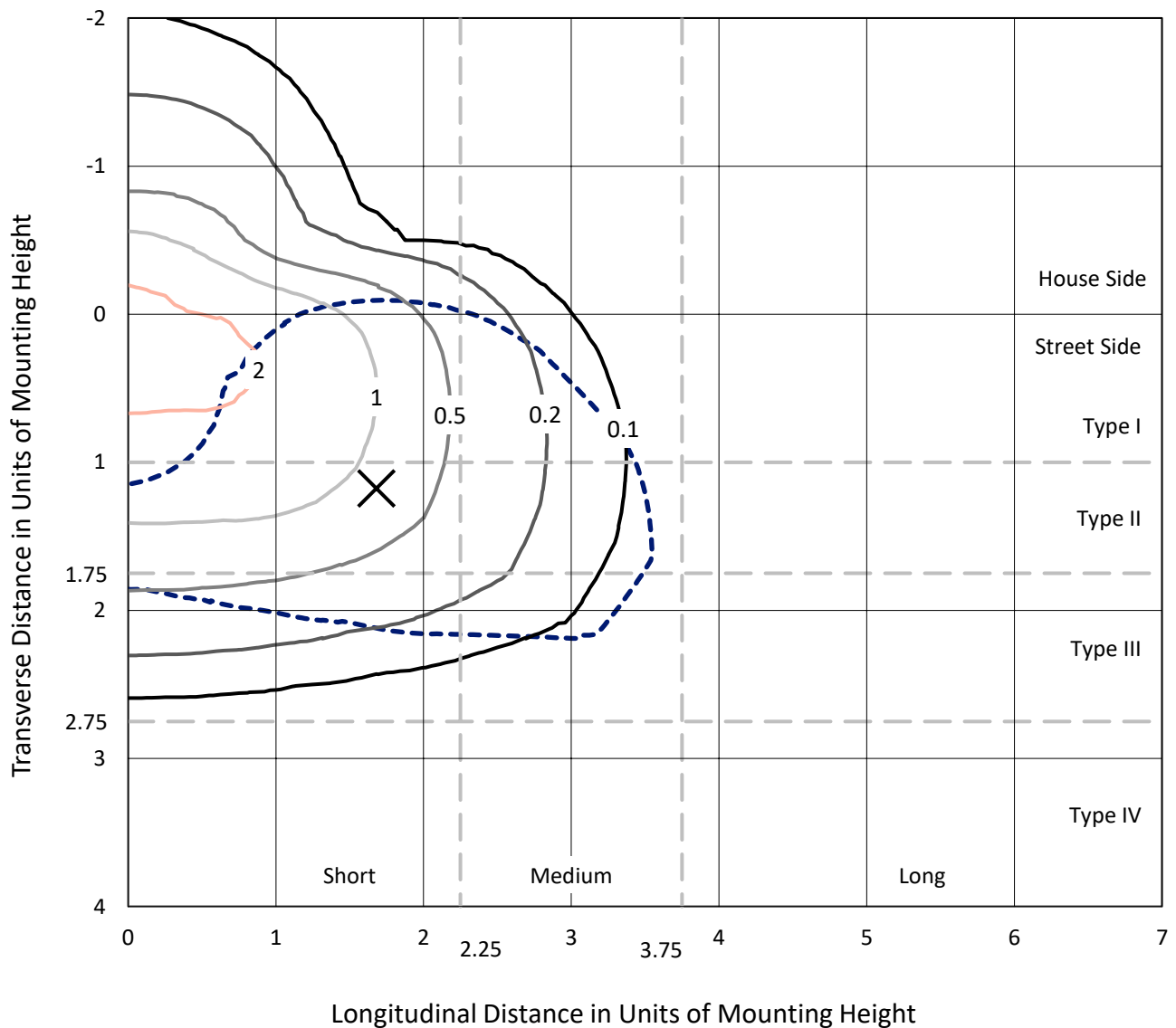
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

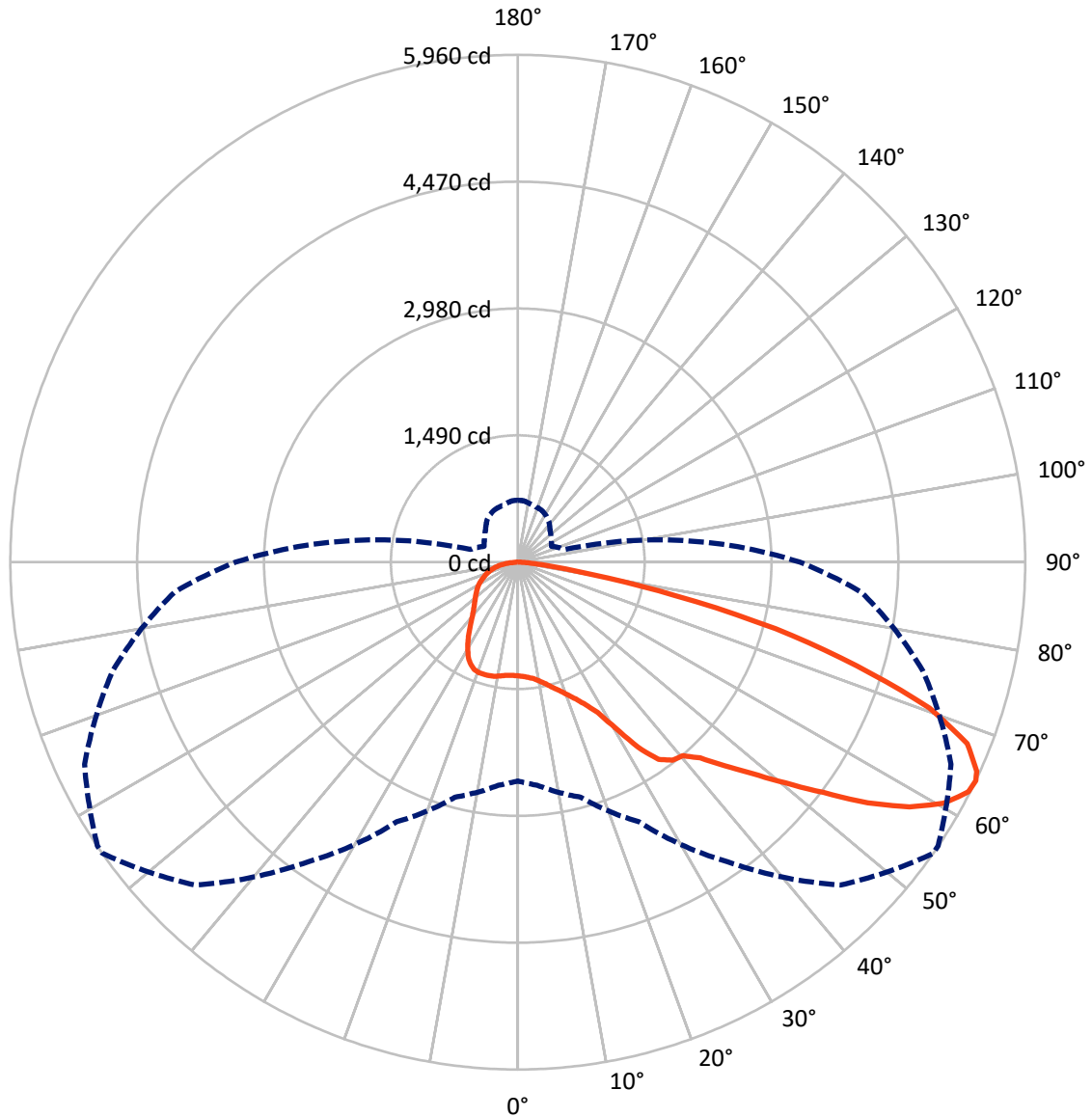
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 64-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2417.5	0.0	2417.5
	% Fixture	24.3	0.0	24.3
<b>Street Side</b>	Lumens	7534.5	0.0	7534.5
	% Fixture	75.7	0.0	75.7
<b>Total</b>	Lumens	9952.0	0.0	9952.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	129.9	1.3
10°-20°	409.8	4.1
20°-30°	729.6	7.3
30°-40°	1122.6	11.3
40°-50°	1591.3	16.0
50°-60°	2303.4	23.1
60°-70°	2383.8	24.0
70°-80°	1116.3	11.2
80°-90°	165.3	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°	9952.0	100.0
0°-180°	9952.0	100.0

**Coefficient of Utilization**



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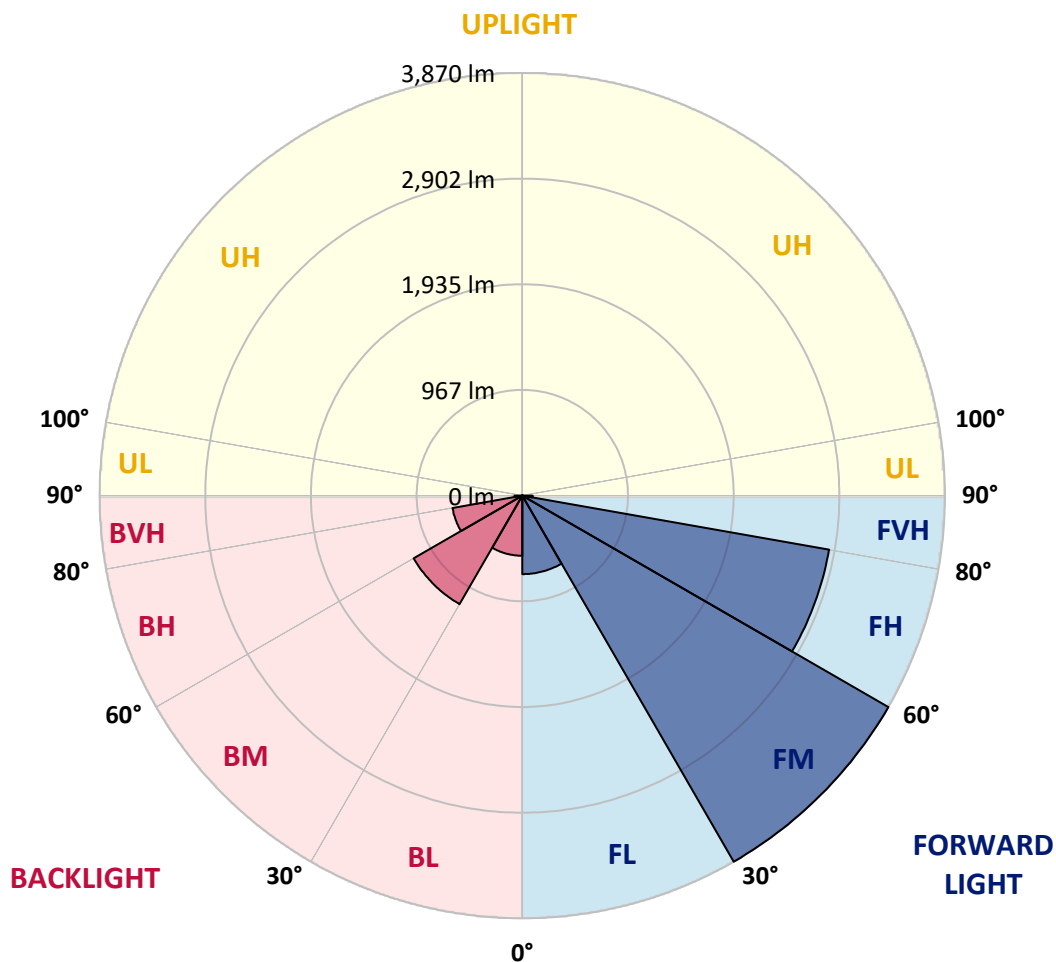
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	718.7	7.2			
FM	(30°-60°)	3869.6	38.9			
FH	(60°-80°)	2851.5	28.7			G2/5000
FVH	(80°-90°)	94.6	1.0			G1/100
BL	(0°-30°)	550.6	5.5	B2/1000		
BM	(30°-60°)	1147.7	11.5	B2/2500		
BH	(60°-80°)	648.6	6.5	B2/1000		G2/1000
BVH	(80°-90°)	70.6	0.7			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°	56°	65°	75°	85°
0°	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3
2.5°	1350.2	1349.7	1351.3	1349.7	1350.8	1346.9	1345.2	1346.4	1344.7	1341.9	1336.9
5°	1366.9	1366.3	1366.9	1364.7	1365.8	1363.5	1359.7	1360.8	1358.0	1351.9	1344.7
7.5°	1395.2	1393.0	1393.0	1392.4	1390.2	1386.8	1384.1	1383.0	1380.2	1372.4	1361.3
10°	1431.8	1431.8	1432.3	1427.9	1430.7	1424.6	1421.8	1421.2	1411.8	1401.8	1386.3
12.5°	1480.0	1482.8	1481.2	1478.9	1477.8	1475.6	1466.2	1468.4	1457.9	1440.7	1421.8
15°	1540.0	1544.4	1541.6	1540.5	1537.7	1529.4	1525.5	1523.9	1510.0	1485.0	1460.1
17.5°	1619.3	1613.7	1611.5	1608.7	1597.1	1591.0	1584.3	1583.2	1571.0	1541.6	1502.8
20°	1688.6	1696.4	1692.0	1689.2	1677.5	1665.9	1660.9	1659.2	1648.7	1616.5	1554.4
22.5°	1771.3	1772.9	1774.6	1768.0	1762.4	1753.5	1744.7	1741.9	1738.0	1704.7	1628.7
25°	1859.5	1866.1	1860.6	1853.9	1847.3	1846.7	1855.0	1853.9	1852.3	1820.1	1727.5
27.5°	2003.2	2009.3	2010.9	2003.7	1978.2	1980.4	1999.3	2005.4	2030.9	1977.6	1854.5
30°	2084.2	2090.3	2104.1	2131.3	2171.8	2207.3	2252.8	2266.7	2291.1	2190.7	2005.4
32.5°	2134.1	2136.3	2161.3	2211.7	2333.2	2465.8	2589.5	2594.5	2610.0	2469.1	2143.5
35°	2212.9	2214.5	2234.5	2290.0	2432.5	2653.3	2844.7	2850.8	2838.0	2555.7	2207.9
37.5°	2309.9	2314.4	2327.1	2373.2	2543.5	2810.3	2950.7	2946.2	2833.1	2624.5	2321.6
40°	2451.4	2451.4	2436.4	2498.5	2660.5	2900.2	2987.8	2980.1	2950.1	2823.6	2494.7
42.5°	2576.2	2574.0	2609.5	2651.7	2807.0	3038.9	3143.7	3156.5	3205.8	3073.8	2691.6
45°	2738.7	2748.7	2768.7	2845.3	3056.1	3275.7	3411.1	3423.3	3493.2	3368.4	2921.8
47.5°	2903.0	2906.3	2969.0	3071.0	3364.5	3596.9	3707.9	3727.8	3791.6	3712.9	3169.8
50°	3019.4	3051.1	3151.5	3312.3	3682.4	3988.6	4075.1	4099.0	4211.6	4087.9	3458.8
52.5°	3142.6	3173.7	3296.3	3541.5	4047.4	4389.1	4495.6	4511.7	4628.7	4467.3	3754.5
55°	3248.0	3276.8	3416.1	3744.5	4338.1	4797.9	4991.0	4972.1	5028.2	4759.7	3982.5
57.5°	3265.2	3288.5	3463.8	3874.3	4556.6	5148.5	5425.4	5436.4	5371.5	4978.2	4170.5
60°	3132.1	3179.8	3381.1	3860.4	4654.8	5392.6	5749.3	5757.1	5572.9	5090.3	4245.4
62.5°	2896.3	2891.3	3134.8	3637.4	4517.2	5448.1	5940.2	5931.8	5651.7	5036.5	4172.8
64°	2570.7	2630.6	2858.0	3363.4	4295.3	5362.7	5960.1	5955.7	5614.0	4924.4	4049.0
65°	2372.1	2368.7	2593.4	3139.3	4074.6	5234.0	5924.6	5918.5	5535.2	4824.0	3953.1
67.5°	1712.5	1720.2	1942.1	2422.5	3312.3	4730.8	5693.3	5670.5	5224.5	4491.2	3588.1
70°	1037.4	1041.8	1216.0	1607.1	2377.6	3824.4	5131.9	5133.0	4749.1	3994.1	3053.8
72.5°	546.4	558.1	628.0	912.5	1444.0	2683.3	4163.3	4262.1	4077.3	3408.9	2412.6
75°	304.0	305.7	355.0	449.9	736.7	1501.7	3129.3	3157.6	3228.0	2743.7	1784.0
77.5°	231.9	235.2	250.7	290.7	401.1	696.2	1893.9	2035.9	2275.0	1934.4	1017.9
80°	188.1	191.4	204.7	228.6	266.8	330.1	879.8	956.4	1217.7	858.7	397.2
82.5°	146.5	144.2	161.4	177.0	194.2	195.3	361.1	399.4	495.9	369.5	172.0
85°	108.7	108.7	122.6	119.3	125.4	114.3	159.2	175.9	198.6	157.0	79.9
87.5°	43.3	47.7	80.4	72.1	56.0	44.9	58.8	62.1	68.8	61.6	33.3
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°	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3
2.5°	1337.5	1339.1	1335.3	1332.5	1331.4	1329.7	1328.0	1328.6	1330.8	1333.0	1332.5
5°	1344.1	1344.7	1338.0	1334.7	1332.5	1330.3	1330.3	1331.9	1336.4	1339.7	1339.7
7.5°	1360.8	1360.8	1351.3	1345.2	1341.9	1338.0	1336.9	1337.5	1340.8	1345.2	1345.8
10°	1386.8	1384.6	1372.4	1363.0	1356.9	1347.5	1339.1	1334.7	1336.4	1339.1	1339.1
12.5°	1418.5	1412.4	1396.8	1384.1	1369.1	1351.3	1334.1	1325.3	1324.7	1327.5	1326.4
15°	1452.3	1445.7	1424.0	1400.7	1374.6	1348.6	1328.0	1315.3	1305.3	1302.5	1308.6
17.5°	1491.7	1477.8	1447.9	1415.7	1376.9	1343.0	1310.8	1284.8	1267.0	1262.0	1263.7
20°	1539.4	1521.1	1480.6	1430.1	1375.2	1323.1	1273.1	1238.2	1209.3	1200.5	1201.6
22.5°	1605.4	1573.8	1514.4	1437.3	1361.3	1285.3	1216.0	1170.5	1135.6	1121.7	1130.0
25°	1680.3	1645.9	1546.6	1435.7	1325.3	1224.9	1148.3	1089.0	1057.3	1036.8	1041.2
27.5°	1783.5	1722.5	1581.0	1420.7	1273.7	1151.1	1062.3	1006.3	977.5	966.9	971.9
30°	1915.5	1821.8	1618.2	1380.2	1192.1	1057.9	975.8	939.2	922.0	908.7	913.1
32.5°	2010.9	1891.7	1626.5	1312.0	1103.9	973.0	917.0	889.8	870.9	858.2	861.0
35°	2079.2	1951.0	1622.6	1228.2	1011.8	903.1	870.4	848.2	817.7	789.9	785.0
37.5°	2170.7	2025.4	1594.3	1136.7	920.9	856.0	832.7	791.6	747.8	710.6	709.0
40°	2311.0	2112.4	1533.9	1029.0	843.2	821.0	792.7	739.5	692.3	662.4	660.1
42.5°	2455.8	2192.9	1451.8	915.9	779.4	784.4	750.0	697.3	668.5	649.0	646.8
45°	2632.8	2280.0	1363.0	817.7	732.3	750.0	712.8	682.3	665.1	652.4	649.0
47.5°	2824.2	2369.3	1263.1	729.5	692.3	718.4	697.3	683.4	674.0	665.1	661.2
50°	3030.5	2469.1	1169.4	658.5	656.3	685.7	695.6	690.7	685.1	682.3	679.0
52.5°	3256.9	2571.2	1090.6	608.5	624.6	662.4	696.2	700.1	700.1	698.4	696.2
55°	3410.0	2642.2	1010.7	568.1	592.5	643.5	695.1	710.1	715.6	713.4	711.2
57.5°	3523.2	2681.1	910.3	533.1	565.3	625.2	689.0	711.2	716.7	719.5	718.4
60°	3546.4	2645.0	778.9	496.5	535.9	598.6	666.8	694.5	701.7	718.9	720.6
62.5°	3441.6	2534.1	647.9	460.4	499.8	558.1	636.8	675.7	690.1	716.7	719.5
64°	3312.9	2409.8	575.3	437.7	476.5	535.3	621.9	670.7	689.5	725.0	727.3
65°	3218.6	2319.4	529.8	423.3	461.5	520.3	613.5	672.3	694.5	737.8	741.1
67.5°	2871.3	2008.2	438.2	389.4	426.0	494.8	615.2	686.2	693.4	742.8	742.2
70°	2375.9	1598.8	367.2	358.4	391.6	474.3	608.5	664.0	664.6	697.3	689.5
72.5°	1779.0	1181.6	318.4	326.2	353.4	425.5	574.7	634.1	624.6	629.1	621.3
75°	1222.1	781.6	274.0	291.8	313.4	376.1	527.0	575.8	560.8	555.3	549.7
77.5°	652.4	432.1	228.0	258.0	272.4	325.1	459.9	507.0	491.5	469.9	462.7
80°	264.1	203.6	183.6	213.6	221.9	261.8	382.8	412.2	400.5	362.8	350.6
82.5°	132.6	122.0	144.2	168.1	168.6	186.9	284.6	312.3	286.2	240.2	229.7
85°	69.3	71.6	99.3	118.2	104.3	101.0	170.9	189.2	173.6	150.9	135.9
87.5°	25.0	28.8	52.1	51.6	36.6	19.4	37.7	18.3	10.0	6.1	7.8
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)