

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: P382845

Luminaire Tested: **GLEON-SA2A-735-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382845
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA2A-735-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9081.6 lumens
Efficiency: N/A
Efficacy: 137.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

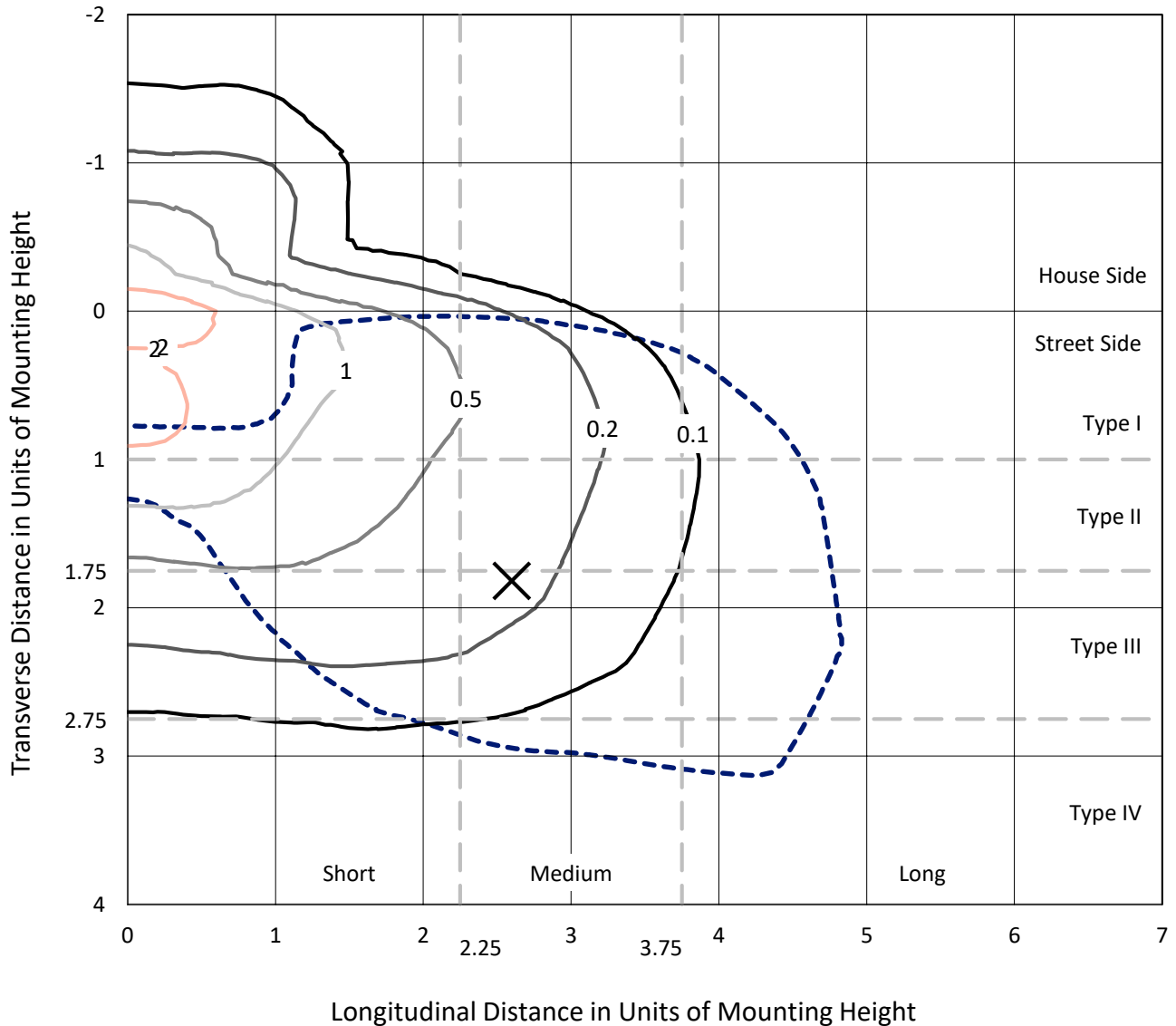
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

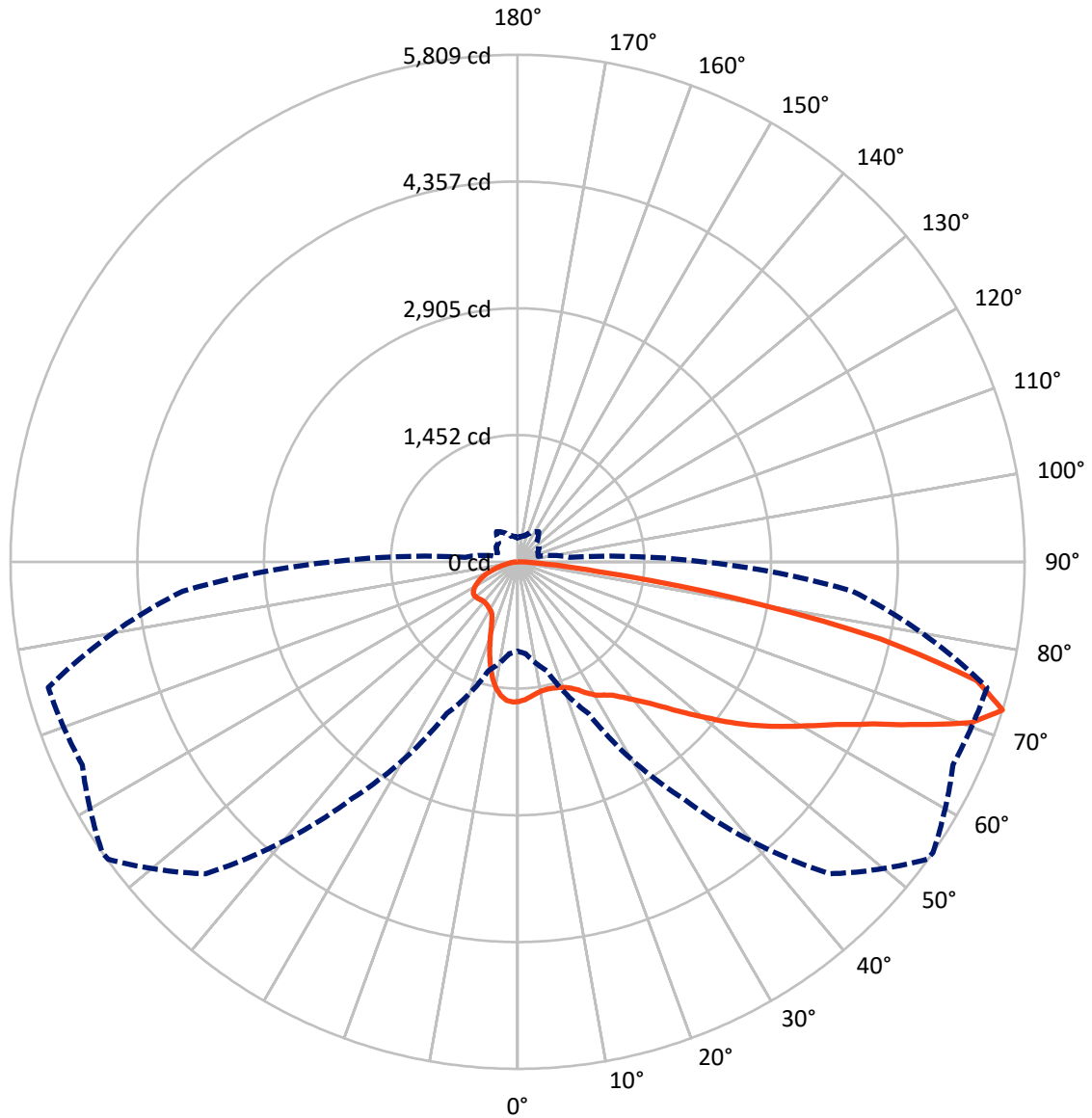
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1688.0	0.0	1688.0
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	7393.7	0.0	7393.7
	% Fixture	81.4	0.0	81.4
Total	Lumens	9081.6	0.0	9081.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.9	1.6
10°-20°	385.9	4.2
20°-30°	636.2	7.0
30°-40°	941.2	10.4
40°-50°	1313.7	14.5
50°-60°	1710.4	18.8
60°-70°	2102.1	23.1
70°-80°	1647.8	18.1
80°-90°	199.4	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°	9081.6	100.0
0°-180°	9081.6	100.0

Coefficient of Utilization

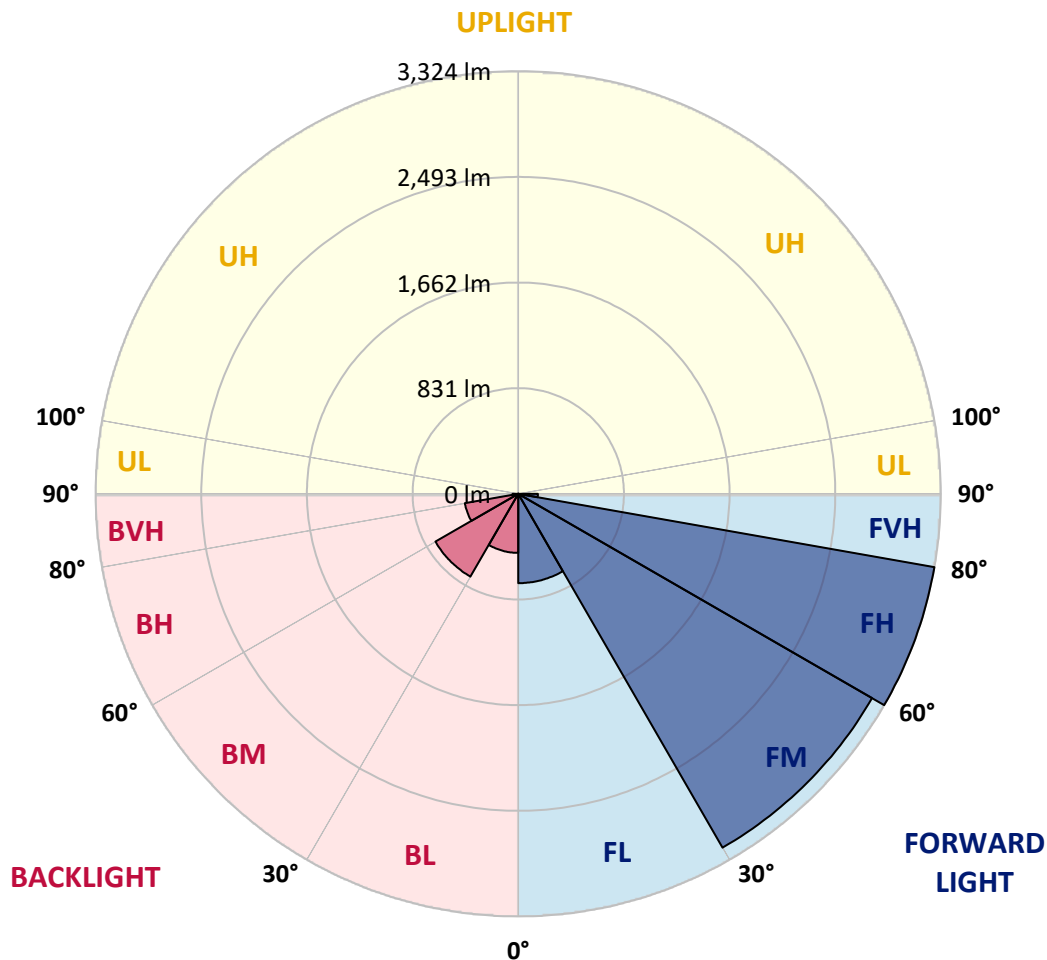


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	702.7	7.7			
FM (30°-60°)	3213.3	35.4			
FH (60°-80°)	3323.6	36.6			G2/5000
FVH (80°-90°)	154.2	1.7			G2/225
BL (0°-30°)	464.4	5.1	B1/500		
BM (30°-60°)	752.0	8.3	B1/1000		
BH (60°-80°)	426.3	4.7	B1/500		G1/500
BVH (80°-90°)	45.2	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1601.8	1601.8	1601.8	1601.8	1601.8	1601.8	1601.8	1601.8	1601.8	1601.8	1601.8
2.5°	1549.6	1546.0	1550.6	1557.0	1564.1	1573.6	1579.1	1581.6	1591.1	1594.7	1602.7
5°	1477.9	1476.0	1483.7	1494.8	1510.4	1532.5	1550.3	1553.6	1578.8	1596.6	1612.9
7.5°	1425.7	1425.7	1434.7	1447.8	1465.3	1495.0	1520.2	1524.9	1567.4	1605.8	1635.9
10°	1384.4	1385.9	1396.3	1411.9	1432.4	1464.1	1497.6	1502.8	1564.3	1627.2	1675.1
12.5°	1356.7	1360.4	1369.9	1384.0	1409.5	1447.8	1490.2	1497.2	1570.9	1658.0	1722.3
15°	1374.2	1380.4	1381.3	1387.1	1401.2	1442.9	1494.5	1501.8	1584.7	1689.3	1776.0
17.5°	1450.9	1453.0	1443.5	1431.2	1424.5	1451.2	1507.3	1515.0	1601.2	1720.2	1827.6
20°	1567.4	1566.2	1545.7	1512.6	1478.2	1482.5	1528.5	1536.5	1623.6	1747.5	1879.1
22.5°	1714.7	1710.4	1678.8	1617.7	1559.1	1534.6	1565.7	1572.4	1657.3	1786.4	1934.4
25°	1893.2	1883.7	1841.9	1760.1	1673.9	1610.7	1621.5	1627.9	1706.4	1830.0	1984.9
27.5°	2081.5	2072.0	2018.9	1919.9	1805.2	1706.7	1698.4	1704.0	1762.2	1862.3	2022.4
30°	2278.5	2268.3	2219.9	2108.8	1944.4	1806.1	1770.2	1772.4	1801.5	1879.7	2053.0
32.5°	2476.3	2466.8	2412.5	2283.7	2095.7	1912.8	1822.0	1819.3	1825.1	1897.8	2087.7
35°	2676.9	2680.6	2617.1	2474.5	2263.1	2031.5	1883.4	1877.5	1864.7	1934.9	2136.8
37.5°	2891.6	2889.2	2807.0	2657.9	2438.3	2160.4	1971.4	1970.5	1926.1	2005.2	2213.7
40°	3035.3	3036.8	2986.7	2845.7	2615.3	2303.1	2084.3	2082.2	2023.9	2110.4	2314.7
42.5°	3091.3	3101.5	3114.3	3024.8	2800.6	2468.3	2218.9	2215.9	2160.4	2261.3	2433.4
45°	3095.3	3115.6	3195.3	3184.0	2988.3	2657.6	2391.1	2382.4	2342.6	2461.9	2575.1
47.5°	3061.0	3081.8	3214.4	3278.8	3156.1	2857.3	2592.3	2585.5	2551.1	2712.9	2728.5
50°	2985.8	3005.7	3175.1	3325.1	3294.1	3049.3	2824.2	2806.4	2787.9	3002.7	2903.9
52.5°	2845.0	2883.4	3122.6	3336.2	3376.6	3219.9	3068.1	3056.4	3066.5	3308.5	3079.7
55°	2511.6	2554.6	2987.4	3326.9	3437.7	3363.2	3311.9	3311.3	3363.7	3629.4	3268.3
57.5°	2324.8	2355.1	2711.9	3311.3	3510.1	3505.4	3553.3	3559.2	3661.3	3978.7	3465.9
60°	2219.3	2251.2	2572.4	3253.3	3622.3	3689.5	3799.6	3811.2	3963.7	4365.6	3703.6
62.5°	2123.3	2158.2	2485.8	3135.2	3754.5	3952.6	4094.7	4105.1	4284.0	4763.1	3933.4
65°	1959.1	1998.7	2359.1	3057.6	3874.8	4295.9	4469.8	4476.9	4651.8	5179.7	4109.1
67.5°	1727.3	1763.4	2120.2	2886.1	3963.7	4712.8	4968.6	4972.6	5016.5	5473.8	4199.0
70°	1456.4	1470.3	1779.7	2532.1	3858.5	5102.6	5515.2	5516.2	5348.9	5662.1	4184.2
72.5°	1023.3	1055.8	1292.0	1916.8	3315.8	5055.1	5799.0	5809.4	5503.6	5567.1	3849.9
75°	627.6	662.0	810.4	1161.6	2103.6	3975.7	5357.9	5430.3	5213.7	4963.8	3145.0
77.5°	419.7	432.5	528.8	677.3	953.1	2287.4	4119.2	4255.4	4331.2	3619.9	2011.3
80°	234.0	258.6	350.6	420.9	423.9	908.9	2469.9	2501.8	2409.7	1441.4	620.5
82.5°	123.9	137.4	234.0	247.2	231.3	304.2	920.6	921.5	769.9	386.5	184.4
85°	96.0	107.3	160.4	150.9	118.1	135.0	303.7	320.3	262.0	158.3	60.1
87.5°	47.9	59.5	108.9	95.7	46.3	38.7	108.6	116.0	103.4	61.9	21.8
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°	1601.8	1601.8	1601.8	1601.8	1601.8	1601.8	1601.8	1601.8	1601.8	1601.8	1601.8
2.5°	1605.8	1608.6	1611.9	1608.2	1607.0	1602.1	1593.9	1592.0	1587.7	1588.0	1590.4
5°	1619.9	1624.5	1622.7	1608.6	1591.6	1568.1	1543.6	1522.7	1508.8	1508.0	1507.1
7.5°	1646.9	1650.0	1635.5	1595.4	1548.1	1493.6	1442.0	1396.9	1369.6	1362.9	1361.4
10°	1689.3	1688.6	1649.0	1568.1	1473.9	1376.4	1293.5	1230.9	1194.4	1183.7	1180.9
12.5°	1736.5	1729.4	1653.7	1518.3	1369.0	1233.7	1128.8	1059.2	1021.2	1008.9	1005.8
15°	1785.2	1767.8	1642.3	1444.2	1240.2	1080.0	969.9	905.5	885.0	878.2	877.0
17.5°	1830.7	1796.9	1609.8	1343.6	1093.3	927.0	841.1	815.3	820.2	829.2	829.4
20°	1875.1	1816.5	1557.6	1216.5	938.3	800.9	771.8	790.8	814.1	832.2	834.7
22.5°	1919.0	1830.3	1490.5	1069.9	799.6	730.1	750.6	785.3	811.9	831.6	834.9
25°	1955.8	1833.8	1397.8	913.5	703.3	703.3	740.5	773.3	799.6	819.0	822.4
27.5°	1969.3	1811.0	1267.2	768.7	654.9	691.1	726.3	753.6	776.1	796.6	800.3
30°	1974.5	1769.0	1116.3	652.5	634.9	677.9	707.3	730.7	751.9	771.1	774.5
32.5°	1975.4	1718.3	956.1	586.5	621.2	664.1	683.8	704.2	727.0	734.6	735.8
35°	1981.2	1658.5	787.4	552.8	608.3	651.2	666.9	681.6	644.8	647.5	649.9
37.5°	1998.1	1599.4	646.3	533.8	600.0	644.4	663.2	609.8	581.0	574.2	573.3
40°	2029.7	1536.1	541.7	518.4	596.9	647.8	639.6	569.3	519.6	482.5	477.0
42.5°	2073.6	1468.0	474.8	508.3	599.1	664.1	606.7	530.3	447.9	423.9	420.9
45°	2123.0	1396.6	438.7	501.2	606.4	676.7	600.0	478.5	414.4	396.3	394.8
47.5°	2170.8	1309.2	419.9	498.2	616.6	666.5	571.5	462.6	398.4	388.9	389.9
50°	2225.7	1230.4	408.6	494.7	625.4	660.1	539.3	454.3	392.4	404.0	416.2
52.5°	2272.0	1148.8	398.4	488.0	628.8	648.7	531.0	455.8	392.4	414.7	426.4
55°	2326.9	1087.1	386.8	473.9	622.4	616.6	525.1	465.0	396.9	382.8	384.1
57.5°	2397.8	1066.8	373.9	451.8	600.9	569.6	522.4	473.9	394.1	385.3	388.4
60°	2496.0	1088.3	368.7	423.0	567.5	532.8	522.7	469.3	374.9	359.5	359.8
62.5°	2589.5	1112.3	368.4	404.9	526.3	500.0	515.6	454.3	365.0	356.1	359.5
65°	2620.2	1088.0	353.7	384.6	480.0	460.7	502.8	438.3	357.6	344.2	343.6
67.5°	2579.1	1012.9	323.9	351.8	427.0	415.0	485.9	419.3	346.0	335.0	333.1
70°	2457.0	845.1	287.1	308.6	366.6	363.5	459.2	397.2	330.3	320.8	312.9
72.5°	2128.5	602.2	242.0	256.7	298.5	308.2	422.4	368.4	308.2	287.8	275.5
75°	1748.1	445.7	198.8	201.9	226.6	253.4	371.8	334.6	282.2	247.2	237.7
77.5°	1070.5	272.7	158.3	159.5	162.6	202.1	306.1	296.9	249.1	206.2	199.4
80°	346.6	148.8	114.4	120.3	111.0	148.1	236.8	252.7	213.8	172.4	165.1
82.5°	131.9	86.8	77.3	81.3	76.9	99.4	172.7	202.4	175.1	141.7	115.3
85°	63.8	49.1	45.7	51.2	47.5	51.0	110.4	149.0	132.8	92.3	85.9
87.5°	22.7	21.8	17.5	23.7	20.2	18.1	33.7	75.2	87.8	63.5	56.7
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)