

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: P452068

Luminaire Tested: **GALN-SA3A-727-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452068
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-727-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 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: 11322 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

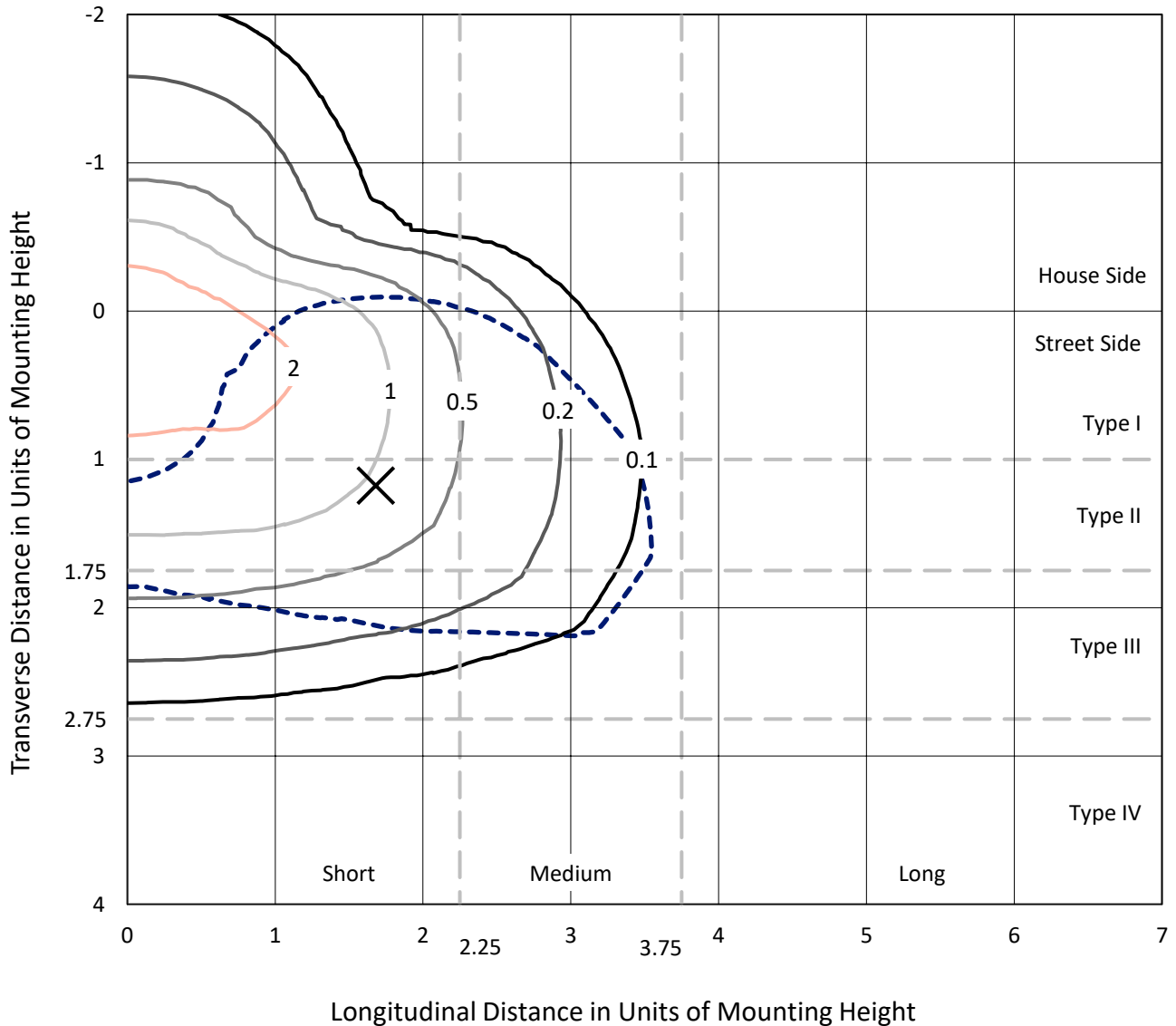
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

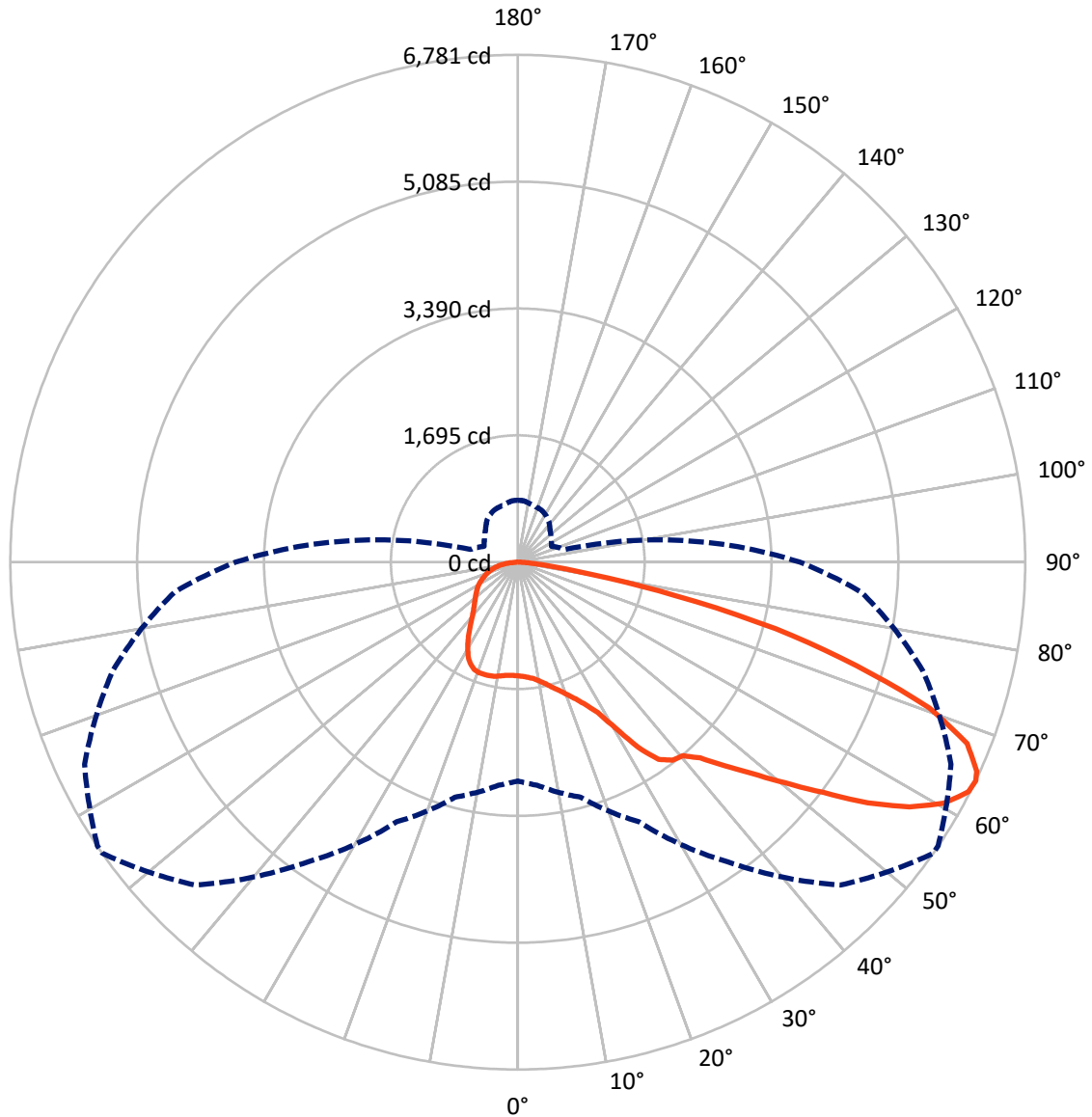
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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
House Side	Lumens	2750.3	0.0	2750.3
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	8571.7	0.0	8571.7
	% Fixture	75.7	0.0	75.7
Total	Lumens	11322.0	0.0	11322.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.8	1.3
10°-20°	466.2	4.1
20°-30°	830.0	7.3
30°-40°	1277.1	11.3
40°-50°	1810.4	16.0
50°-60°	2620.5	23.1
60°-70°	2711.9	24.0
70°-80°	1270.0	11.2
80°-90°	188.0	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°	11322.0	100.0
0°-180°	11322.0	100.0

Coefficient of Utilization



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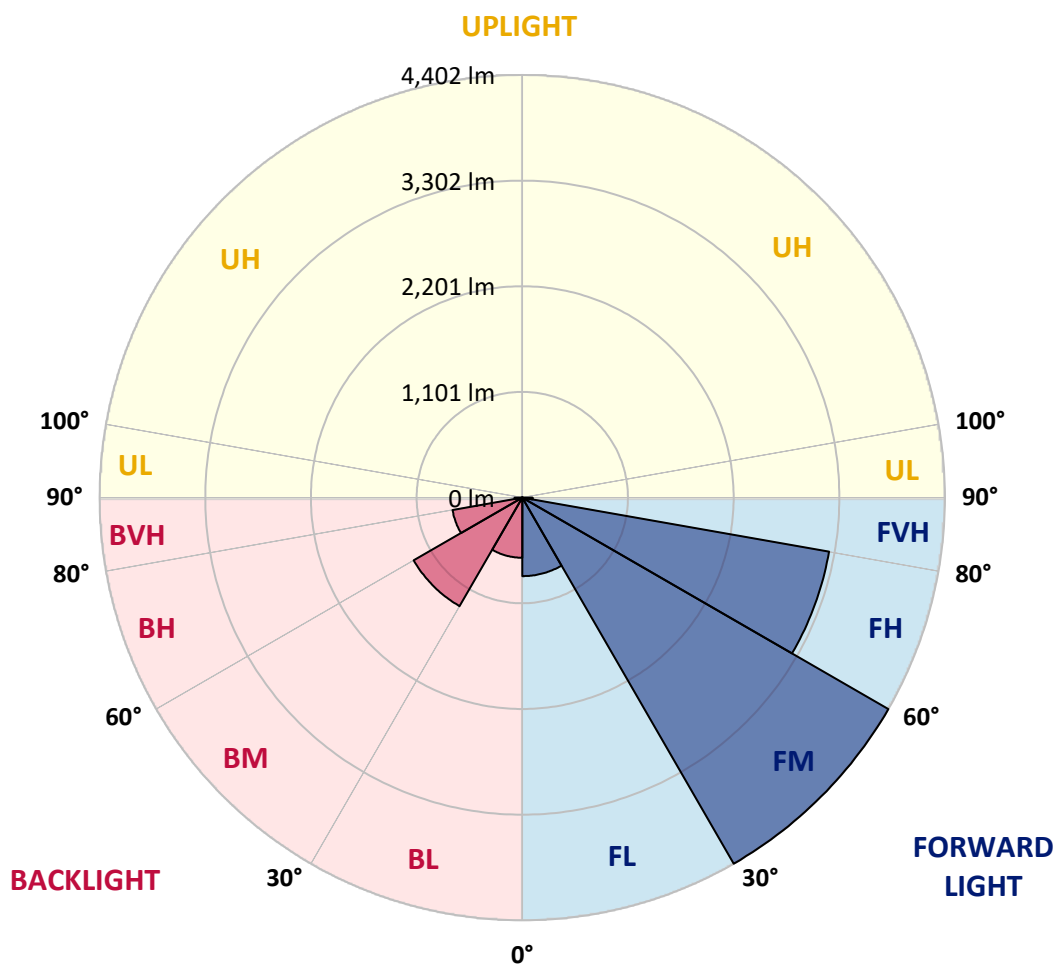
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	817.6	7.2			
FM	(30°-60°)	4402.3	38.9			
FH	(60°-80°)	3244.1	28.7			G2/5000
FVH	(80°-90°)	107.6	1.0			G2/225
BL	(0°-30°)	626.4	5.5	B2/1000		
BM	(30°-60°)	1305.7	11.5	B2/2500		
BH	(60°-80°)	737.9	6.5	B2/1000		G2/1000
BVH	(80°-90°)	80.4	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°	1519.1	1519.1	1519.1	1519.1	1519.1	1519.1	1519.1	1519.1	1519.1	1519.1	1519.1
2.5°	1536.1	1535.5	1537.4	1535.5	1536.7	1532.3	1530.4	1531.7	1529.8	1526.6	1521.0
5°	1555.0	1554.4	1555.0	1552.5	1553.8	1551.3	1546.8	1548.1	1544.9	1538.0	1529.8
7.5°	1587.2	1584.7	1584.7	1584.1	1581.6	1577.8	1574.6	1573.3	1570.2	1561.4	1548.7
10°	1628.9	1628.9	1629.5	1624.5	1627.6	1620.7	1617.5	1616.9	1606.2	1594.8	1577.1
12.5°	1683.8	1686.9	1685.1	1682.5	1681.3	1678.7	1668.0	1670.5	1658.5	1639.0	1617.5
15°	1751.9	1757.0	1753.8	1752.6	1749.4	1740.0	1735.5	1733.6	1717.9	1689.5	1661.1
17.5°	1842.2	1835.9	1833.4	1830.2	1817.0	1810.0	1802.4	1801.2	1787.3	1753.8	1709.7
20°	1921.1	1929.9	1924.9	1921.7	1908.5	1895.2	1889.5	1887.6	1875.6	1839.0	1768.4
22.5°	2015.1	2017.0	2018.9	2011.3	2005.0	1994.9	1984.8	1981.7	1977.3	1939.4	1852.9
25°	2115.5	2123.0	2116.7	2109.2	2101.6	2100.9	2110.4	2109.2	2107.3	2070.7	1965.3
27.5°	2278.9	2285.9	2287.8	2279.6	2250.5	2253.0	2274.5	2281.4	2310.5	2249.9	2109.8
30°	2371.1	2378.0	2393.8	2424.7	2470.8	2511.2	2562.9	2578.7	2606.5	2492.2	2281.4
32.5°	2427.9	2430.4	2458.8	2516.2	2654.4	2805.3	2946.0	2951.7	2969.4	2809.1	2438.6
35°	2517.5	2519.4	2542.1	2605.2	2767.4	3018.6	3236.3	3243.3	3228.7	2907.5	2511.8
37.5°	2627.9	2633.0	2647.5	2699.9	2893.6	3197.2	3356.8	3351.8	3223.1	2985.8	2641.2
40°	2788.9	2788.9	2771.8	2842.5	3026.8	3299.4	3399.1	3390.3	3356.2	3212.3	2838.1
42.5°	2930.9	2928.3	2968.7	3016.7	3193.4	3457.2	3576.5	3591.0	3647.2	3497.0	3062.1
45°	3115.8	3127.1	3149.8	3236.9	3476.8	3726.7	3880.7	3894.6	3974.1	3832.1	3324.0
47.5°	3302.6	3306.4	3377.7	3493.8	3827.7	4092.1	4218.3	4241.0	4313.6	4224.0	3606.1
50°	3435.1	3471.1	3585.3	3768.3	4189.3	4537.6	4636.1	4663.2	4791.4	4650.6	3934.9
52.5°	3575.2	3610.6	3750.0	4029.0	4604.5	4993.3	5114.5	5132.8	5265.9	5082.3	4271.3
55°	3695.1	3727.9	3886.3	4260.0	4935.2	5458.4	5678.1	5656.6	5720.3	5414.9	4530.7
57.5°	3714.7	3741.2	3940.6	4407.6	5183.9	5857.3	6172.2	6184.8	6111.0	5663.5	4744.7
60°	3563.2	3617.5	3846.6	4391.9	5295.6	6135.0	6540.8	6549.6	6340.1	5791.0	4829.8
62.5°	3295.0	3289.3	3566.4	4138.2	5139.1	6198.1	6757.9	6748.4	6429.7	5729.8	4747.2
64°	2924.5	2992.7	3251.5	3826.4	4886.6	6100.9	6780.6	6775.5	6386.8	5602.3	4606.4
65°	2698.6	2694.8	2950.4	3571.4	4635.5	5954.5	6740.2	6733.3	6297.2	5488.1	4497.3
67.5°	1948.2	1957.1	2209.5	2756.0	3768.3	5382.1	6477.0	6451.2	5943.8	5109.4	4082.0
70°	1180.2	1185.2	1383.4	1828.3	2704.9	4350.8	5838.4	5839.6	5402.9	4544.0	3474.2
72.5°	621.6	634.9	714.4	1038.2	1642.8	3052.7	4736.4	4848.8	4638.6	3878.1	2744.7
75°	345.8	347.7	403.9	511.8	838.1	1708.4	3560.1	3592.3	3672.4	3121.4	2029.6
77.5°	263.8	267.6	285.3	330.7	456.3	792.0	2154.6	2316.2	2588.2	2200.7	1158.1
80°	213.9	217.7	232.9	260.0	303.6	375.5	1000.9	1088.0	1385.3	977.0	451.9
82.5°	166.6	164.1	183.7	201.3	220.9	222.1	410.8	454.4	564.2	420.3	195.6
85°	123.7	123.7	139.5	135.7	142.6	130.0	181.1	200.1	225.9	178.6	90.9
87.5°	49.2	54.3	91.5	82.0	63.7	51.1	66.9	70.7	78.3	70.1	37.9
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°	1519.1	1519.1	1519.1	1519.1	1519.1	1519.1	1519.1	1519.1	1519.1	1519.1	1519.1
2.5°	1521.6	1523.5	1519.1	1515.9	1514.7	1512.8	1510.9	1511.5	1514.0	1516.5	1515.9
5°	1529.2	1529.8	1522.2	1518.4	1515.9	1513.4	1513.4	1515.3	1520.3	1524.1	1524.1
7.5°	1548.1	1548.1	1537.4	1530.4	1526.6	1522.2	1521.0	1521.6	1525.4	1530.4	1531.1
10°	1577.8	1575.2	1561.4	1550.6	1543.7	1533.0	1523.5	1518.4	1520.3	1523.5	1523.5
12.5°	1613.7	1606.8	1589.1	1574.6	1557.6	1537.4	1517.8	1507.7	1507.1	1510.2	1509.0
15°	1652.2	1644.7	1620.0	1593.5	1563.9	1534.2	1510.9	1496.4	1485.0	1481.8	1488.8
17.5°	1697.0	1681.3	1647.2	1610.6	1566.4	1527.9	1491.3	1461.6	1441.4	1435.8	1437.7
20°	1751.3	1730.5	1684.4	1627.0	1564.5	1505.2	1448.4	1408.6	1375.8	1365.7	1367.0
22.5°	1826.4	1790.4	1722.9	1635.2	1548.7	1462.3	1383.4	1331.6	1291.9	1276.1	1285.6
25°	1911.6	1872.5	1759.5	1633.3	1507.7	1393.5	1306.4	1238.9	1202.9	1179.5	1184.6
27.5°	2029.0	1959.6	1798.7	1616.3	1449.0	1309.5	1208.6	1144.8	1112.0	1100.0	1105.7
30°	2179.2	2072.6	1840.9	1570.2	1356.2	1203.5	1110.1	1068.5	1048.9	1033.8	1038.8
32.5°	2287.8	2152.1	1850.4	1492.6	1255.9	1107.0	1043.2	1012.3	990.8	976.3	979.5
35°	2365.4	2219.6	1846.0	1397.3	1151.1	1027.4	990.2	965.0	930.2	898.7	893.0
37.5°	2469.5	2304.2	1813.8	1293.1	1047.6	973.8	947.3	900.6	850.7	808.4	806.6
40°	2629.2	2403.2	1745.0	1170.7	959.3	934.0	901.8	841.3	787.6	753.5	751.0
42.5°	2793.9	2494.8	1651.6	1042.0	886.7	892.4	853.3	793.3	760.5	738.4	735.9
45°	2995.2	2593.8	1550.6	930.2	833.1	853.3	811.0	776.3	756.7	742.2	738.4
47.5°	3213.0	2695.5	1437.0	829.9	787.6	817.3	793.3	777.5	766.8	756.7	752.3
50°	3447.7	2809.1	1330.4	749.1	746.6	780.0	791.4	785.7	779.4	776.3	772.5
52.5°	3705.2	2925.2	1240.8	692.3	710.6	753.5	792.0	796.5	796.5	794.6	792.0
55°	3879.4	3006.0	1149.9	646.3	674.0	732.1	790.8	807.8	814.1	811.6	809.1
57.5°	4008.2	3050.1	1035.6	606.5	643.1	711.3	783.8	809.1	815.4	818.5	817.3
60°	4034.7	3009.1	886.1	564.8	609.6	681.0	758.6	790.1	798.3	817.9	819.8
62.5°	3915.4	2882.9	737.1	523.8	568.6	634.9	724.5	768.7	785.1	815.4	818.5
64°	3769.0	2741.5	654.5	497.9	542.1	609.0	707.5	763.0	784.5	824.9	827.4
65°	3661.7	2638.7	602.7	481.5	525.1	592.0	698.0	764.9	790.1	839.4	843.2
67.5°	3266.6	2284.6	498.6	443.0	484.7	562.9	699.9	780.7	788.9	845.1	844.4
70°	2703.0	1818.8	417.8	407.7	445.6	539.6	692.3	755.4	756.1	793.3	784.5
72.5°	2024.0	1344.3	362.3	371.1	402.0	484.1	653.8	721.4	710.6	715.7	706.8
75°	1390.3	889.2	311.8	332.0	356.6	427.9	599.6	655.1	638.0	631.7	625.4
77.5°	742.2	491.6	259.4	293.5	309.9	369.8	523.2	576.8	559.2	534.5	526.3
80°	300.4	231.6	208.9	243.0	252.4	297.9	435.5	468.9	455.7	412.7	398.9
82.5°	150.8	138.8	164.1	191.2	191.9	212.7	323.8	355.3	325.7	273.3	261.3
85°	78.9	81.4	113.0	134.4	118.6	114.9	194.4	215.2	197.5	171.7	154.6
87.5°	28.4	32.8	59.3	58.7	41.7	22.1	42.9	20.8	11.4	6.9	8.8
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)