

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: P451832

Luminaire Tested: **GALN-SA2D-727-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451832
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-727-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13084 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

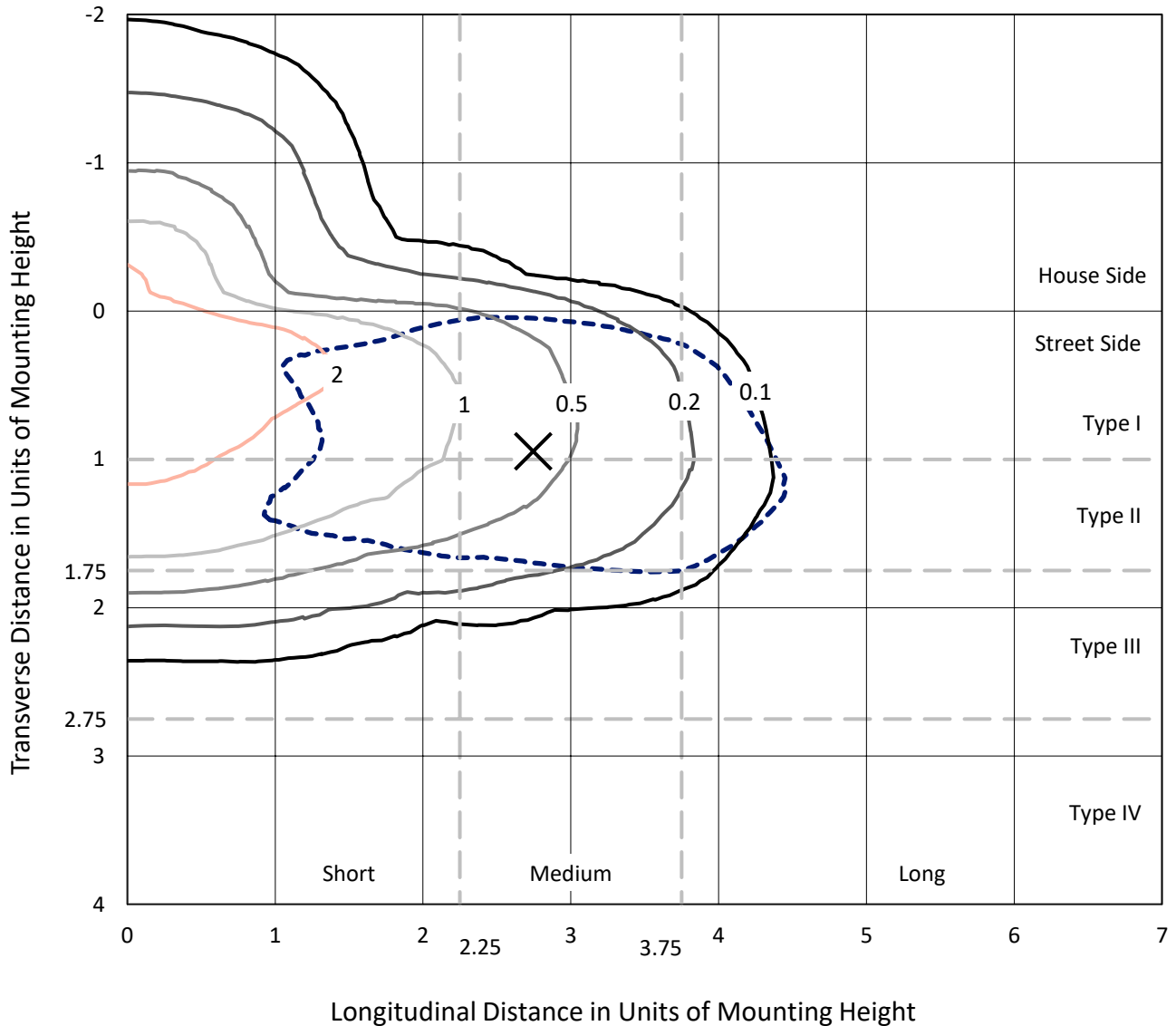
Input Watts (W): 125
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

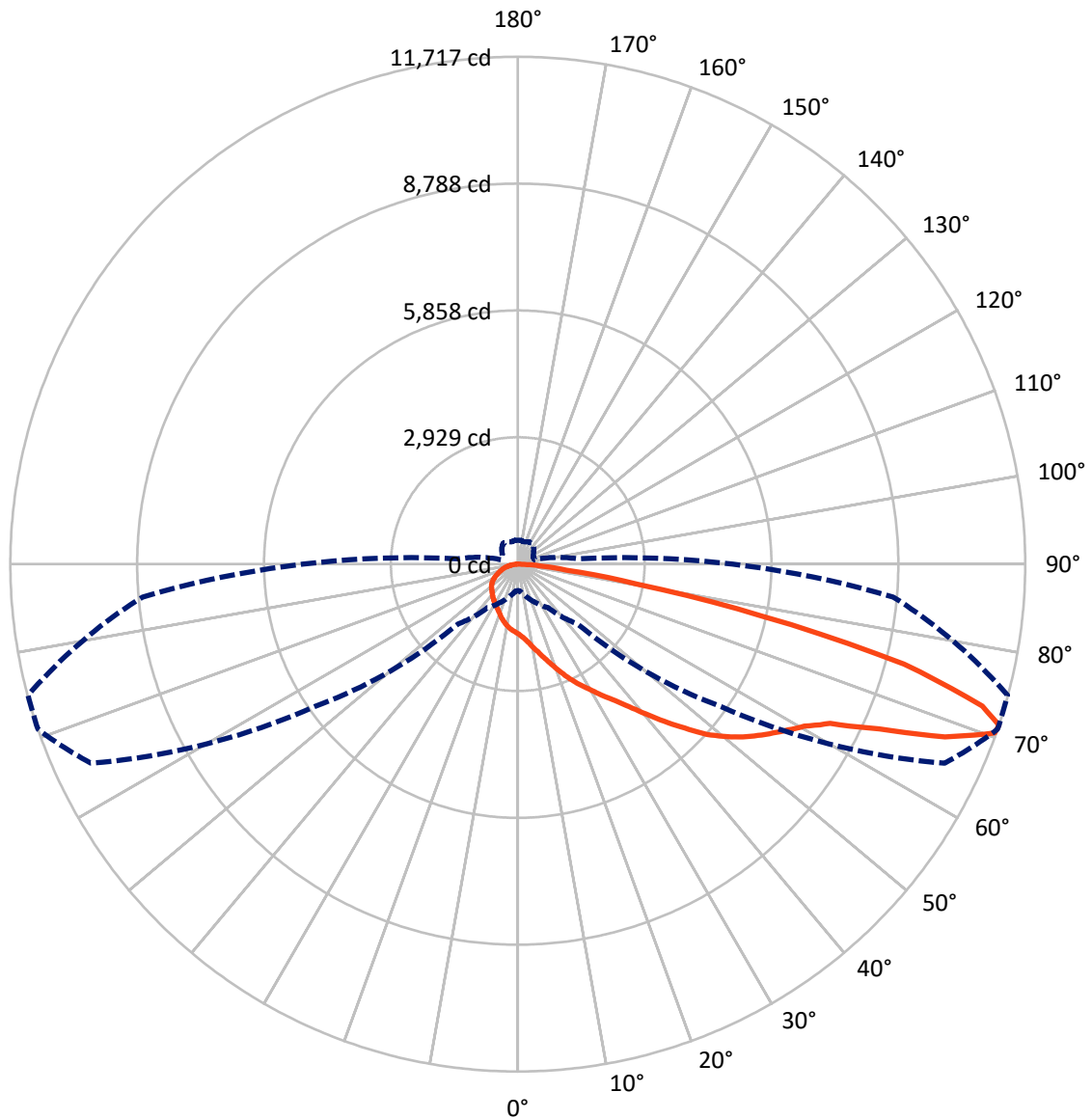
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2353.1	0.0	2353.1
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	10730.9	0.0	10730.9
	% Fixture	82.0	0.0	82.0
Total	Lumens	13084.0	0.0	13084.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.2	1.2
10°-20°	523.8	4.0
20°-30°	915.4	7.0
30°-40°	1361.6	10.4
40°-50°	2006.1	15.3
50°-60°	2808.6	21.5
60°-70°	3141.4	24.0
70°-80°	1918.9	14.7
80°-90°	246.8	1.9
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°	13084.0	100.0
0°-180°	13084.0	100.0

Coefficient of Utilization



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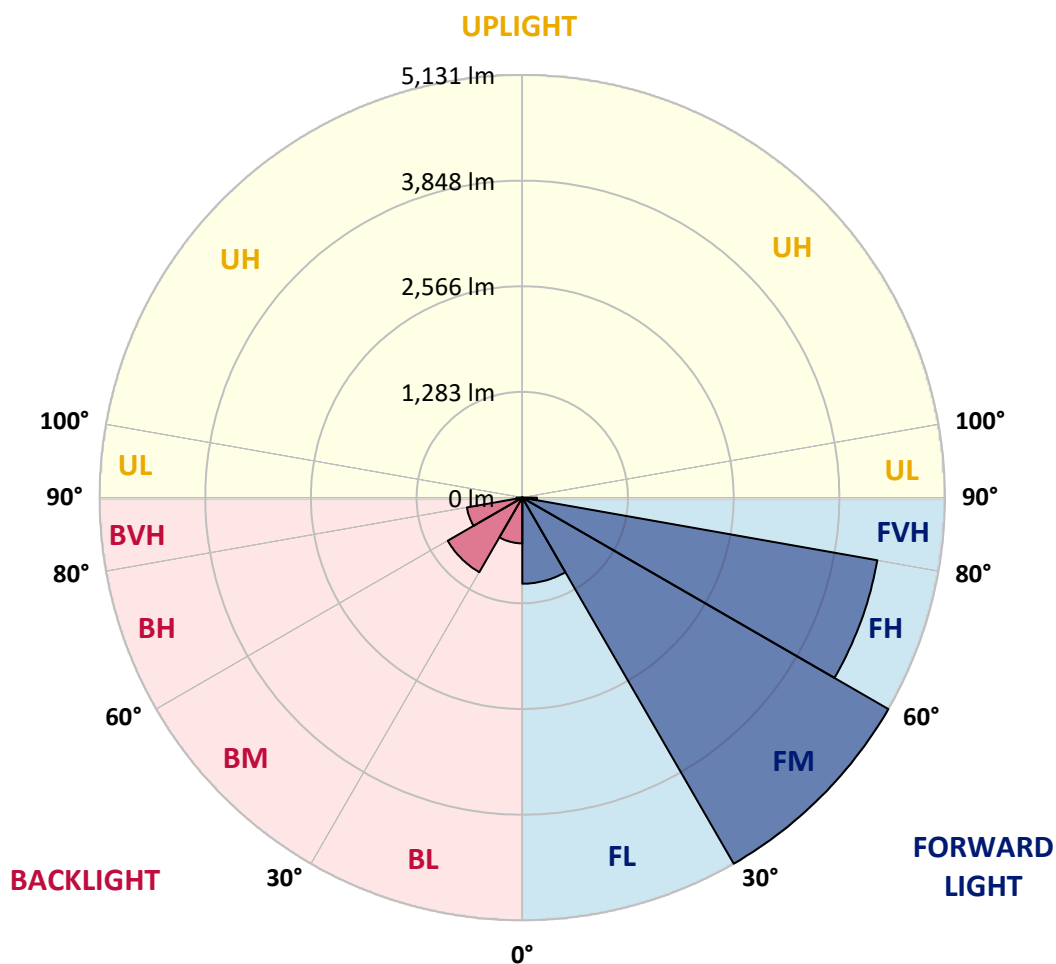
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1045.4	8.0			
FM	(30°-60°)	5131.3	39.2			
FH	(60°-80°)	4376.6	33.4			G2/5000
FVH	(80°-90°)	177.6	1.4			G2/225
BL	(0°-30°)	555.1	4.2	B2/1000		
BM	(30°-60°)	1045.1	8.0	B2/2500		
BH	(60°-80°)	683.7	5.2	B2/1000		G2/1000
BVH	(80°-90°)	69.2	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	1605.8	1605.8	1605.8	1605.8	1605.8	1605.8	1605.8	1605.8	1605.8	1605.8	1605.8
2.5°	1782.7	1774.1	1774.8	1762.6	1746.8	1729.5	1705.0	1683.5	1666.2	1656.1	1626.7
5°	1975.4	1966.8	1956.0	1929.4	1917.9	1875.5	1821.5	1772.6	1735.2	1714.4	1655.4
7.5°	2131.5	2129.3	2126.4	2111.3	2081.9	2022.9	1976.9	1892.0	1836.6	1797.1	1696.4
10°	2227.8	2231.4	2233.6	2236.5	2224.2	2193.3	2130.0	2022.9	1952.4	1902.1	1749.6
12.5°	2276.7	2280.3	2292.6	2319.2	2335.7	2332.1	2280.3	2175.3	2078.3	2012.1	1806.4
15°	2306.9	2312.7	2334.3	2369.5	2424.9	2460.1	2435.0	2337.9	2231.4	2153.1	1874.0
17.5°	2340.0	2346.5	2370.2	2420.6	2493.2	2569.4	2596.8	2513.3	2397.6	2304.1	1949.5
20°	2358.7	2367.4	2401.2	2467.3	2552.2	2662.9	2753.5	2709.7	2583.1	2479.5	2036.6
22.5°	2388.9	2396.1	2424.9	2495.4	2596.8	2735.5	2910.3	2900.9	2789.5	2655.7	2132.2
25°	2470.9	2482.4	2496.8	2539.2	2637.0	2809.6	3040.5	3105.2	2989.4	2839.8	2219.9
27.5°	2625.5	2634.9	2634.1	2639.9	2695.3	2873.6	3153.4	3307.2	3187.9	3026.1	2304.8
30°	2801.7	2805.3	2808.2	2795.2	2807.5	2939.1	3256.9	3507.2	3387.8	3217.4	2378.9
32.5°	3016.0	3023.2	2998.7	2965.7	2955.6	3036.1	3342.5	3707.1	3624.4	3411.5	2452.2
35°	3269.1	3287.8	3238.2	3180.0	3139.0	3175.6	3457.5	3911.3	3866.7	3659.6	2549.3
37.5°	3558.2	3581.2	3535.2	3420.9	3362.6	3372.7	3607.8	4163.7	4173.1	3942.2	2693.8
40°	3794.8	3825.0	3826.5	3664.7	3576.2	3587.7	3798.4	4435.6	4542.7	4291.7	2864.3
42.5°	3950.9	3980.3	4011.3	3916.3	3823.6	3889.0	4020.6	4730.4	4958.4	4716.0	3102.3
45°	4122.0	4148.6	4165.9	4122.7	4071.0	4240.7	4288.9	5043.9	5401.3	5189.9	3362.6
47.5°	4320.5	4350.0	4366.5	4325.5	4306.1	4549.2	4577.9	5336.6	5874.5	5650.2	3650.3
50°	4585.1	4607.4	4598.8	4572.9	4568.6	4785.8	4855.5	5610.6	6265.0	6145.6	3948.7
52.5°	4914.5	4941.1	4950.4	4913.8	4897.2	4954.8	5079.2	5860.1	6620.3	6571.4	4267.3
55°	5113.7	5156.1	5298.5	5356.0	5395.6	5173.4	5320.1	6135.6	6938.8	7020.1	4609.6
57.5°	4858.4	4913.1	5231.6	5519.3	5891.1	5719.9	5661.7	6423.2	7257.4	7455.2	5019.5
60°	4235.6	4247.9	4658.5	5188.5	5936.4	6422.5	6374.3	6880.6	7602.6	7893.8	5559.5
62.5°	2938.3	2964.2	3449.6	4295.3	5376.9	6675.6	7586.8	7670.2	8097.3	8550.4	6351.3
65°	1515.2	1481.4	1923.7	2699.6	4053.7	6074.4	8569.1	9122.1	9170.3	9577.3	7465.9
67.5°	932.7	947.8	1154.9	1576.3	2396.8	4414.7	8466.2	10896.2	10642.3	10837.9	8500.8
70°	700.4	719.1	861.5	1078.7	1461.3	2524.1	6808.7	11326.2	11680.7	11630.4	8815.7
71°	609.1	628.5	776.7	981.6	1227.5	1948.1	5736.4	10876.0	11716.7	11708.1	8697.1
72.5°	519.2	531.4	647.2	831.3	1034.8	1365.6	4309.7	9754.2	11216.9	11503.8	8273.5
75°	407.7	417.1	468.9	634.3	814.8	838.5	2312.7	7312.8	9212.7	9759.2	6887.8
77.5°	332.2	338.7	365.3	471.0	628.5	594.0	1213.2	4759.9	5771.7	6321.8	4057.3
80°	263.9	271.1	286.9	319.3	471.0	423.6	578.9	2411.9	2788.0	2782.3	1619.5
82.5°	205.0	207.1	225.8	234.4	322.2	300.6	313.5	1021.2	1131.2	1168.6	584.6
85°	129.4	135.9	199.9	179.8	192.7	176.2	154.6	405.6	499.8	492.6	233.7
87.5°	39.6	41.7	67.6	76.2	85.6	76.9	56.8	119.4	146.0	158.2	58.2
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°	1605.8	1605.8	1605.8	1605.8	1605.8	1605.8	1605.8	1605.8	1605.8	1605.8	1605.8
2.5°	1615.2	1607.2	1579.2	1556.2	1534.6	1510.9	1490.7	1485.0	1480.0	1477.8	1477.1
5°	1630.3	1606.5	1551.1	1505.8	1469.9	1436.8	1416.0	1406.6	1397.3	1397.3	1400.1
7.5°	1651.8	1608.7	1523.1	1455.5	1410.2	1379.3	1364.2	1362.7	1364.9	1367.1	1367.8
10°	1675.6	1607.2	1482.1	1398.0	1357.7	1343.3	1344.0	1356.3	1367.8	1376.4	1377.8
12.5°	1698.6	1598.6	1433.9	1344.0	1318.2	1321.0	1341.2	1368.5	1390.8	1403.0	1403.7
15°	1724.5	1584.9	1375.7	1293.0	1284.4	1306.6	1344.0	1385.8	1419.5	1439.7	1441.8
17.5°	1746.0	1561.9	1314.6	1243.4	1254.2	1295.1	1346.9	1400.9	1441.8	1467.0	1471.3
20°	1770.5	1532.5	1251.3	1195.9	1226.8	1282.2	1341.2	1399.4	1441.8	1466.3	1472.0
22.5°	1789.9	1490.7	1190.9	1157.1	1202.4	1266.4	1321.7	1368.5	1403.0	1416.0	1424.6
25°	1797.8	1438.2	1134.1	1125.4	1183.0	1240.5	1277.9	1304.5	1315.3	1313.8	1317.4
27.5°	1793.5	1377.8	1085.2	1100.3	1158.5	1200.2	1218.9	1216.8	1197.3	1179.4	1188.0
30°	1775.5	1305.9	1044.2	1074.4	1126.9	1149.9	1147.0	1119.0	1082.3	1048.5	1050.6
32.5°	1743.2	1228.3	1006.1	1044.9	1082.3	1092.3	1072.9	1036.3	983.8	939.9	933.4
35°	1715.8	1154.2	972.3	1011.1	1037.7	1032.7	1014.0	966.5	919.0	880.2	873.7
37.5°	1711.5	1090.9	939.9	973.0	988.1	980.9	957.9	917.6	900.3	870.9	867.3
40°	1734.5	1046.3	906.8	932.7	939.9	934.1	909.0	886.0	901.8	894.6	894.6
42.5°	1797.1	1022.6	877.3	892.4	898.2	902.5	884.5	865.1	884.5	851.4	840.7
45°	1896.3	1023.3	850.7	852.9	870.1	885.2	873.0	844.3	834.2	768.0	755.1
47.5°	2042.3	1047.8	829.1	815.5	846.4	871.6	854.3	812.6	768.0	724.2	716.2
50°	2212.7	1091.6	809.7	776.7	814.8	854.3	841.4	792.5	746.5	719.8	714.8
52.5°	2401.9	1147.0	786.0	733.5	775.9	846.4	844.3	789.6	726.3	708.3	704.0
55°	2635.6	1201.7	756.5	683.2	741.4	839.9	836.3	765.9	722.0	709.1	707.6
57.5°	2907.4	1280.8	714.1	632.1	701.9	813.3	805.4	751.5	707.6	698.3	697.5
60°	3345.4	1403.7	653.7	585.4	661.6	766.6	776.7	727.0	684.6	682.4	681.7
62.5°	3921.4	1576.3	591.1	537.2	614.9	706.2	734.9	694.0	660.2	670.9	672.4
65°	4716.7	1721.6	526.4	496.2	563.1	647.9	695.4	663.0	632.8	653.7	653.7
67.5°	5235.2	1724.5	467.4	453.8	510.6	599.0	653.7	626.4	597.6	632.8	634.3
70°	5127.4	1510.9	418.5	409.2	459.5	546.5	607.7	586.1	553.0	584.6	573.1
71°	4953.3	1392.2	399.1	391.9	439.4	521.4	586.1	568.1	535.0	555.9	549.4
72.5°	4675.7	1208.8	367.5	368.9	409.2	489.7	555.9	537.2	504.1	515.6	513.5
75°	3952.3	1055.7	314.3	320.7	351.7	435.8	495.5	481.1	447.3	447.3	445.1
77.5°	2470.9	737.8	261.0	264.6	298.4	373.2	425.7	413.5	381.1	370.3	367.5
80°	921.9	381.1	204.2	208.5	229.4	294.1	352.4	340.9	307.8	295.6	284.1
82.5°	348.8	191.3	150.3	146.7	169.0	224.4	276.1	262.5	236.6	207.1	198.5
85°	131.6	94.9	92.0	89.2	99.2	133.0	171.2	168.3	140.9	120.1	117.9
87.5°	34.5	30.9	36.0	26.6	28.0	25.2	25.9	10.8	5.0	2.2	1.4
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)