

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: P457763

Luminaire Tested: **GALN-SA9A-827-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457763
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9A-827-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30775 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

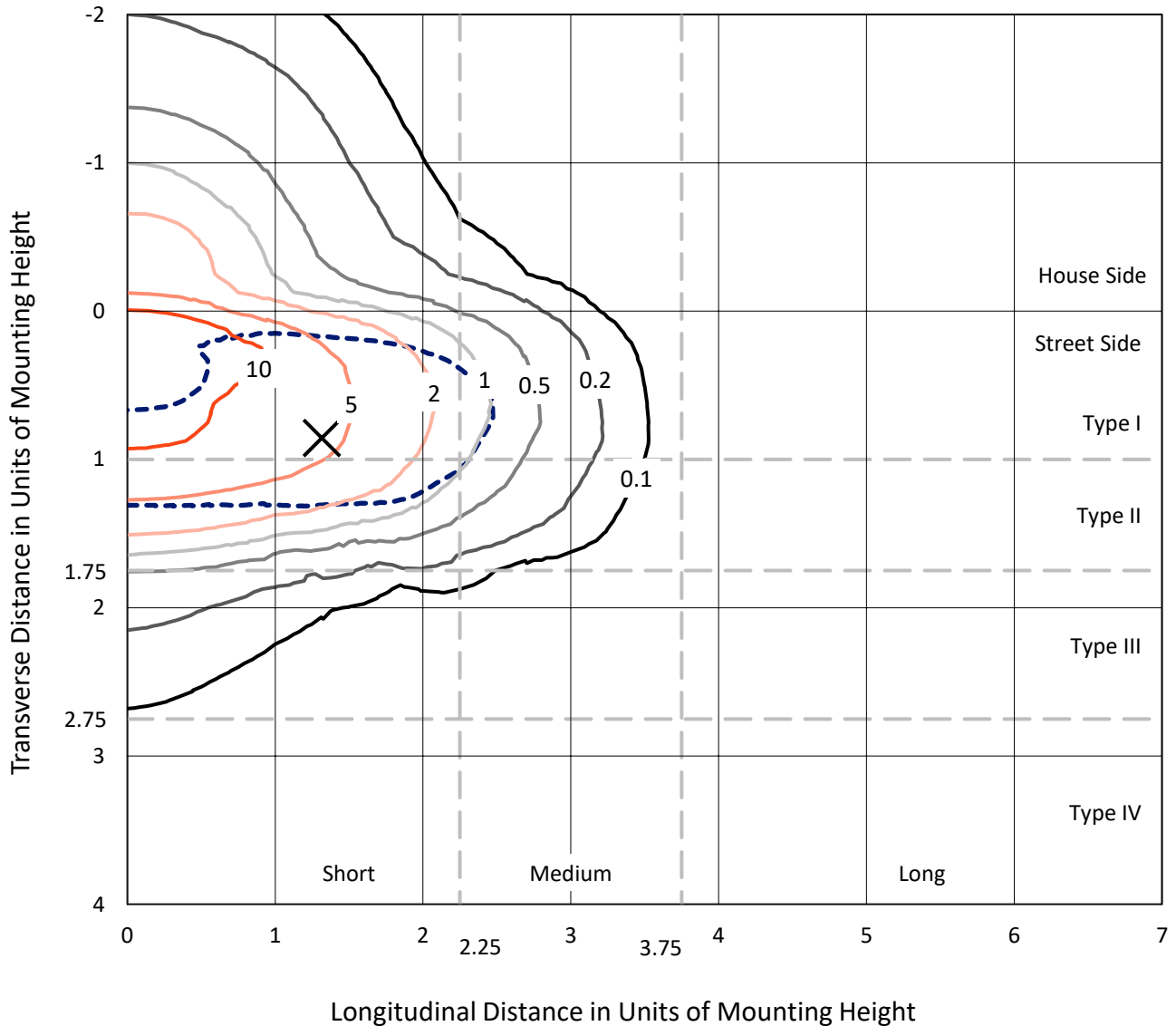
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

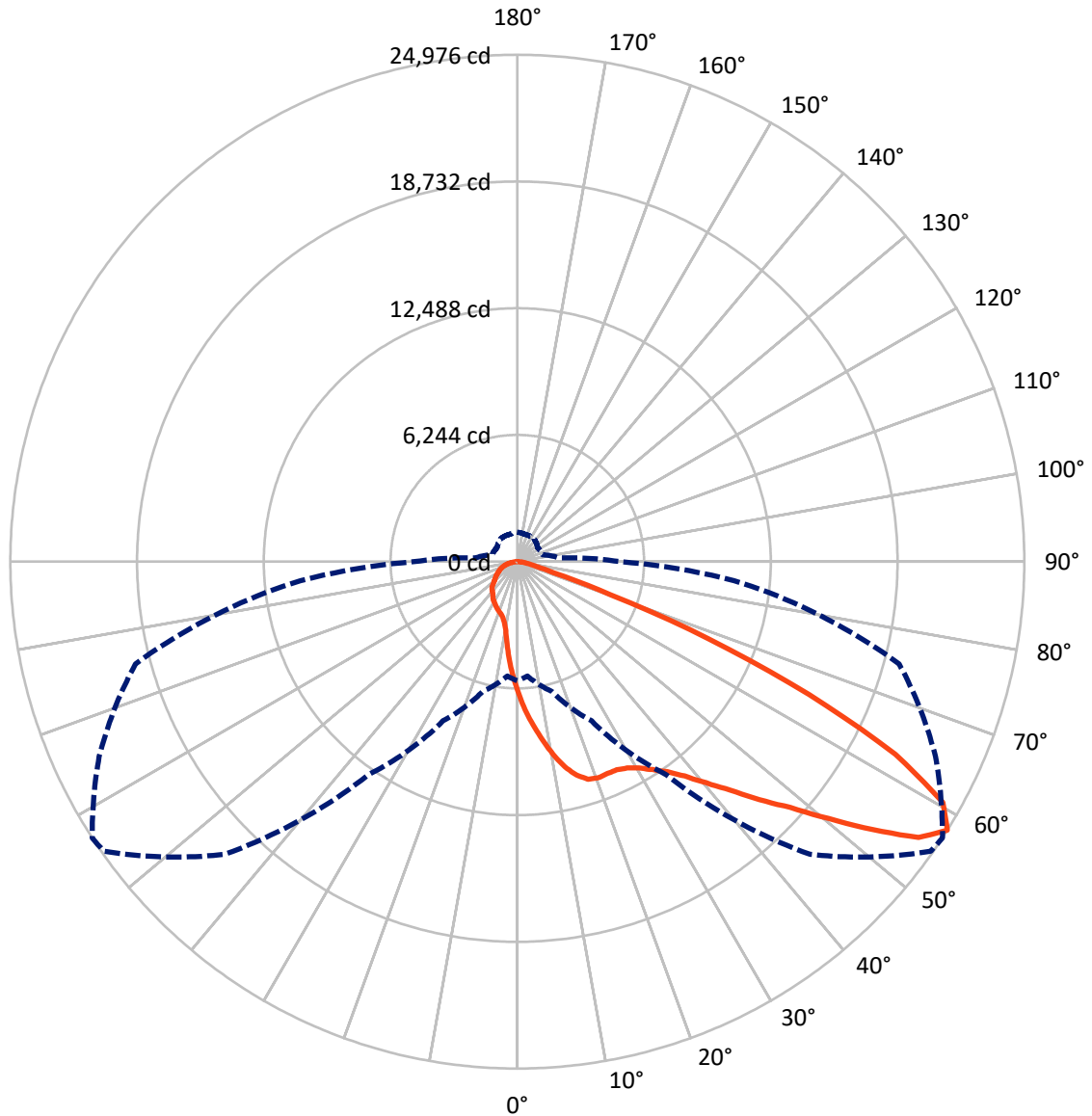
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4680.0	0.0	4680.0
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	26095.0	0.0	26095.0
	% Fixture	84.8	0.0	84.8
Total	Lumens	30775.0	0.0	30775.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	621.4	2.0
10°-20°	1831.3	6.0
20°-30°	3040.9	9.9
30°-40°	4580.5	14.9
40°-50°	6877.1	22.3
50°-60°	7708.4	25.0
60°-70°	4511.3	14.7
70°-80°	1334.4	4.3
80°-90°	269.7	0.9
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°	30775.0	100.0
0°-180°	30775.0	100.0

Coefficient of Utilization



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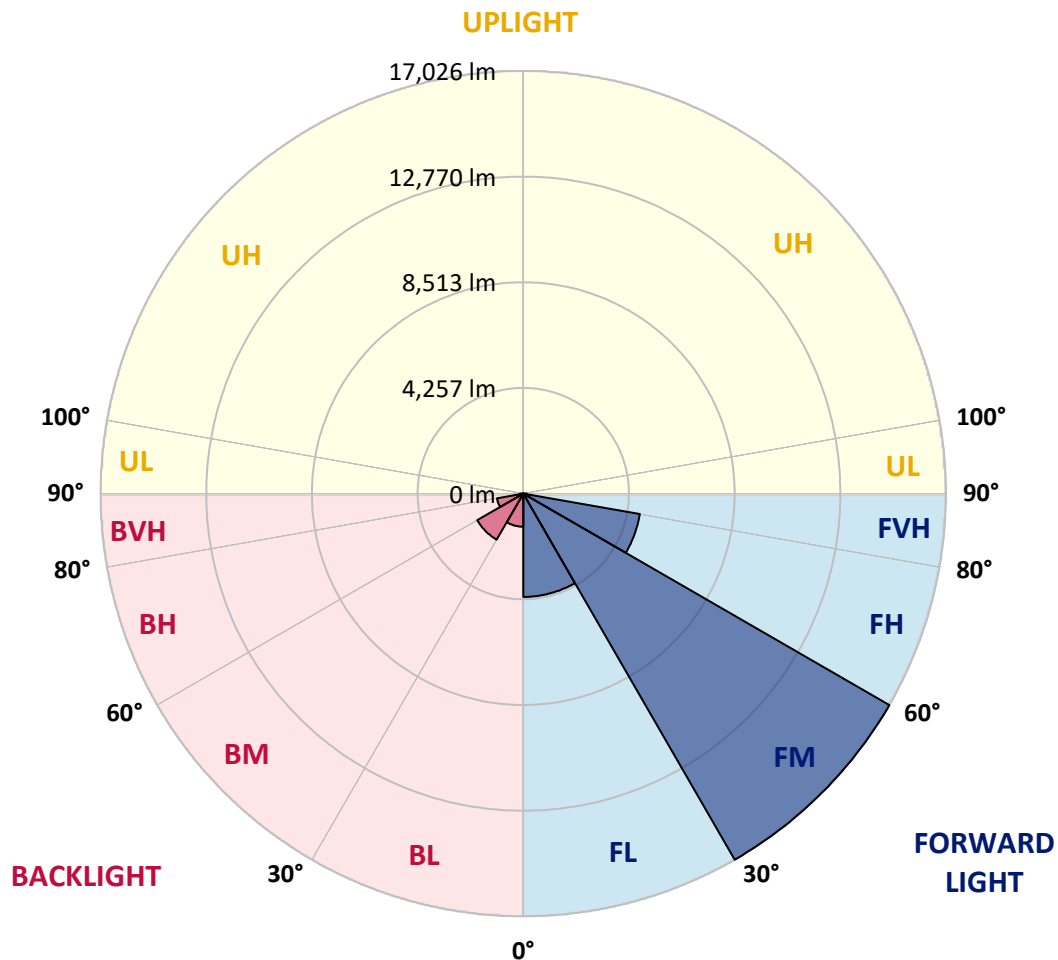
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4160.1	13.5			
FM	(30°-60°)	17026.1	55.3			
FH	(60°-80°)	4768.9	15.5			G2/5000
FVH	(80°-90°)	139.9	0.5			G2/225
BL	(0°-30°)	1333.5	4.3	B3/2500		
BM	(30°-60°)	2139.9	7.0	B2/2500		
BH	(60°-80°)	1076.8	3.5	B3/2500		G3/2500
BVH	(80°-90°)	129.8	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	6465.5	6465.5	6465.5	6465.5	6465.5	6465.5	6465.5	6465.5	6465.5	6465.5	6465.5
2.5°	8033.8	7946.2	7877.2	7816.5	7737.3	7523.4	7309.5	7306.1	7135.9	6873.1	6603.6
5°	9342.8	9224.8	9240.0	9051.3	8862.7	8552.7	8099.5	8075.9	7713.8	7221.9	6721.5
7.5°	10195.2	10196.9	10149.7	10041.9	9838.0	9486.0	8972.2	8855.9	8352.2	7605.9	6856.3
10°	10151.4	10196.9	10276.0	10368.7	10431.0	10257.5	9789.2	9647.7	8992.4	8070.9	7006.2
12.5°	9568.5	9639.3	9752.1	9984.6	10360.3	10646.6	10486.6	10372.1	9733.6	8534.2	7171.3
15°	9204.6	9246.7	9309.1	9465.7	9870.0	10555.7	10970.1	10909.4	10432.7	9058.1	7356.6
17.5°	9093.4	9135.6	9155.8	9251.8	9539.9	10242.3	11160.4	11268.3	11052.6	9539.9	7543.6
20°	9204.6	9224.8	9224.8	9282.1	9507.9	10058.7	11152.0	11369.3	11561.4	10117.7	7718.8
22.5°	9496.1	9504.5	9492.7	9512.9	9681.4	10109.3	11072.8	11342.4	11972.4	10607.9	7855.3
25°	9969.4	9982.9	9905.4	9858.2	9981.2	10331.6	11116.6	11364.3	12294.2	11076.2	7946.2
27.5°	10506.8	10523.7	10429.3	10319.8	10377.1	10606.2	11288.5	11510.8	12535.1	11537.8	8003.5
30°	11165.5	11172.2	11013.9	10882.5	10845.4	11015.6	11581.6	11788.8	12834.9	12081.9	8089.4
32.5°	11839.3	11889.9	11686.0	11500.7	11438.4	11490.6	12014.5	12215.0	13192.1	12666.5	8227.6
35°	12755.8	12764.2	12519.9	12294.2	12088.7	12156.0	12568.8	12713.6	13685.6	13342.0	8423.0
37.5°	13899.6	13977.1	13640.2	13219.0	12966.3	12868.6	13239.2	13397.6	14378.0	14170.8	8717.8
40°	15169.8	15198.4	14910.3	14647.6	14186.0	13903.0	14159.0	14330.8	15232.1	15159.7	9059.8
42.5°	15968.3	16030.6	16052.5	16025.6	15678.5	15203.5	15301.2	15382.0	16242.9	16087.9	9410.1
45°	16237.8	16330.5	16643.8	17307.5	17344.6	16876.3	16648.9	16726.3	17344.6	17024.5	9745.4
47.5°	15791.4	15949.7	16527.6	17888.7	18907.9	18943.3	18257.6	18087.5	18348.6	17801.1	9988.0
50°	14637.4	14671.1	15555.5	17526.5	19640.7	20919.3	20210.1	19893.4	19302.1	18375.6	10154.7
52.5°	12851.8	12890.5	13631.7	15843.6	19189.2	22300.7	22494.4	21928.4	20270.7	18822.0	10264.2
55°	9539.9	9763.9	10579.3	12717.0	17049.8	22171.0	24310.4	23988.6	21441.5	19175.7	10436.1
57.5°	5865.8	5660.2	6627.2	8652.1	12823.1	20388.7	24871.4	24975.8	22730.2	19472.2	10724.1
60°	2698.7	2739.2	3138.4	4462.5	7816.5	15949.7	23426.0	24086.3	23442.8	19462.1	10796.6
62.5°	1859.8	1822.7	1721.7	1959.2	3564.6	10087.4	19787.3	20905.8	22014.3	18857.4	10508.5
65°	1662.7	1625.6	1430.2	1364.5	1637.4	4396.8	14384.8	15796.4	18535.6	17331.1	9790.9
67.5°	1553.2	1502.7	1300.5	1172.5	1169.1	1750.3	8481.9	10181.7	13748.0	14652.6	8483.6
70°	1438.6	1398.2	1197.7	1056.2	995.6	1100.0	3728.0	4880.3	8926.7	10559.0	6608.7
72.5°	1324.1	1276.9	1096.7	945.1	865.9	823.8	1428.5	1858.1	5043.7	6330.7	4051.5
75°	1157.3	1133.7	980.4	855.8	769.9	665.4	906.3	1034.3	2412.3	2907.6	2033.3
77.5°	1012.4	987.2	870.9	748.0	685.6	540.8	643.5	702.5	1017.5	1179.2	918.1
80°	741.2	766.5	734.5	660.4	611.5	424.5	432.9	481.8	604.8	668.8	561.0
82.5°	470.0	517.2	566.0	508.7	463.3	335.2	299.9	318.4	412.7	438.0	249.3
85°	197.1	200.5	328.5	310.0	264.5	198.8	180.3	190.4	220.7	230.8	116.2
87.5°	75.8	74.1	116.2	107.8	82.5	57.3	57.3	64.0	87.6	80.9	37.1
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°	6465.5	6465.5	6465.5	6465.5	6465.5	6465.5	6465.5	6465.5	6465.5	6465.5	6465.5
2.5°	6487.4	6367.8	6130.2	5835.4	5619.8	5377.2	5163.3	5010.0	4952.7	4925.8	4875.2
5°	6482.3	6246.5	5754.6	5239.1	4824.7	4400.2	4041.3	3808.9	3788.7	3633.7	3618.5
7.5°	6484.0	6123.5	5340.2	4582.1	3950.4	3515.7	3219.3	3141.8	3049.1	3025.5	3037.3
10°	6489.1	5966.8	4895.4	3931.8	3320.3	3035.6	2924.5	2894.1	2897.5	2907.6	2909.3
12.5°	6495.8	5815.2	4433.9	3438.3	2966.6	2848.6	2836.9	2863.8	2892.4	2914.3	2919.4
15°	6504.2	5641.7	3984.1	3040.7	2789.7	2779.6	2818.3	2863.8	2904.2	2936.2	2941.3
17.5°	6494.1	5439.6	3606.7	2796.4	2692.0	2740.8	2804.9	2862.1	2899.2	2929.5	2932.9
20°	6470.5	5213.8	3242.8	2624.6	2631.3	2710.5	2779.6	2833.5	2873.9	2889.1	2900.9
22.5°	6379.6	4944.3	2926.1	2491.5	2558.9	2668.4	2750.9	2783.0	2737.5	2705.5	2713.9
25°	6224.6	4593.9	2631.3	2383.7	2493.2	2609.4	2693.7	2616.2	2579.1	2565.6	2572.4
27.5°	6030.8	4209.8	2409.0	2270.8	2409.0	2543.7	2520.2	2506.7	2489.8	2467.9	2473.0
30°	5822.0	3834.1	2220.3	2183.2	2318.0	2395.5	2405.6	2427.5	2409.0	2375.3	2388.8
32.5°	5628.2	3480.4	2077.1	2109.1	2254.0	2242.2	2318.0	2343.3	2257.4	2144.5	2149.5
35°	5463.1	3151.9	1969.3	2036.7	2144.5	2149.5	2225.3	2137.8	2045.1	1991.2	1994.6
37.5°	5338.5	2895.8	1898.5	1974.3	2004.7	2068.7	2028.3	1982.8	1971.0	1933.9	1935.6
40°	5264.4	2671.8	1853.1	1925.5	1920.4	1964.2	1834.5	1880.0	1896.9	1885.1	1886.7
42.5°	5190.2	2513.4	1805.9	1858.1	1856.4	1770.5	1741.9	1780.6	1824.4	1829.5	1826.1
45°	5131.3	2390.4	1757.0	1755.3	1789.0	1654.3	1645.8	1669.4	1731.8	1762.1	1760.4
47.5°	5065.6	2287.7	1682.9	1635.7	1645.8	1581.8	1568.4	1578.5	1654.3	1703.1	1716.6
50°	4983.0	2184.9	1590.3	1526.2	1484.1	1514.5	1517.8	1519.5	1595.3	1650.9	1662.7
52.5°	4917.3	2107.4	1484.1	1437.0	1386.4	1453.8	1479.1	1482.4	1527.9	1573.4	1581.8
55°	4956.1	2063.6	1379.7	1346.0	1300.5	1391.5	1440.3	1447.1	1457.2	1490.9	1495.9
57.5°	5072.3	2073.7	1295.5	1251.7	1218.0	1317.4	1399.9	1405.0	1398.2	1438.6	1445.4
60°	5107.7	2068.7	1233.1	1147.2	1127.0	1238.2	1340.9	1351.0	1349.4	1408.3	1420.1
62.5°	4959.4	2004.7	1170.8	1059.6	1046.1	1157.3	1258.4	1298.8	1307.2	1391.5	1406.6
65°	4610.7	1873.3	1088.2	967.0	967.0	1071.4	1179.2	1234.8	1258.4	1371.3	1388.1
67.5°	4150.8	1718.3	1004.0	887.8	884.4	988.9	1095.0	1152.3	1189.3	1342.6	1352.7
70°	3445.0	1509.4	899.6	801.9	801.9	896.2	992.2	1061.3	1115.2	1288.7	1288.7
72.5°	2360.1	1255.0	773.2	704.2	705.8	793.4	891.2	968.6	1032.7	1180.9	1184.3
75°	1492.6	980.4	635.1	599.7	606.5	689.0	790.1	870.9	999.0	1167.4	1172.5
77.5°	793.4	689.0	505.4	497.0	505.4	581.2	694.1	805.2	1002.3	1012.4	995.6
80°	513.8	488.5	399.2	382.4	385.8	468.3	618.2	764.8	805.2	815.3	778.3
82.5°	279.6	310.0	283.0	266.2	266.2	365.6	527.3	608.1	577.8	480.1	458.2
85°	119.6	144.9	146.6	128.0	123.0	225.7	353.8	331.9	308.3	294.8	291.4
87.5°	33.7	47.2	47.2	35.4	27.0	62.3	70.8	20.2	0.0	1.7	3.4
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)