

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: P457067

Luminaire Tested: **GALN-SA8B-827-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457067
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-SA8B-827-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34108 lumens
Efficiency: N/A
Efficacy: 104.9 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

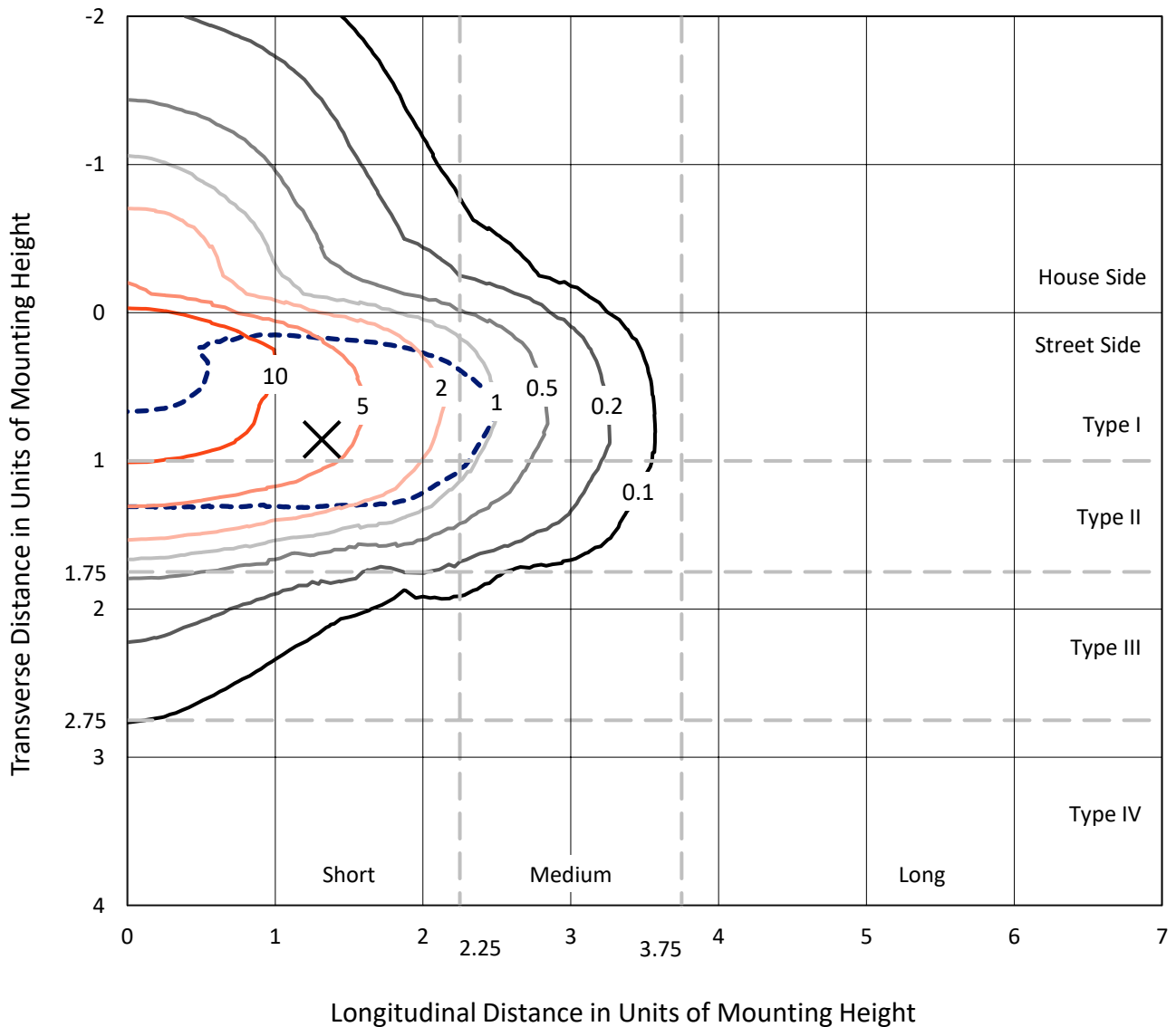
Input Watts (W): 325
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

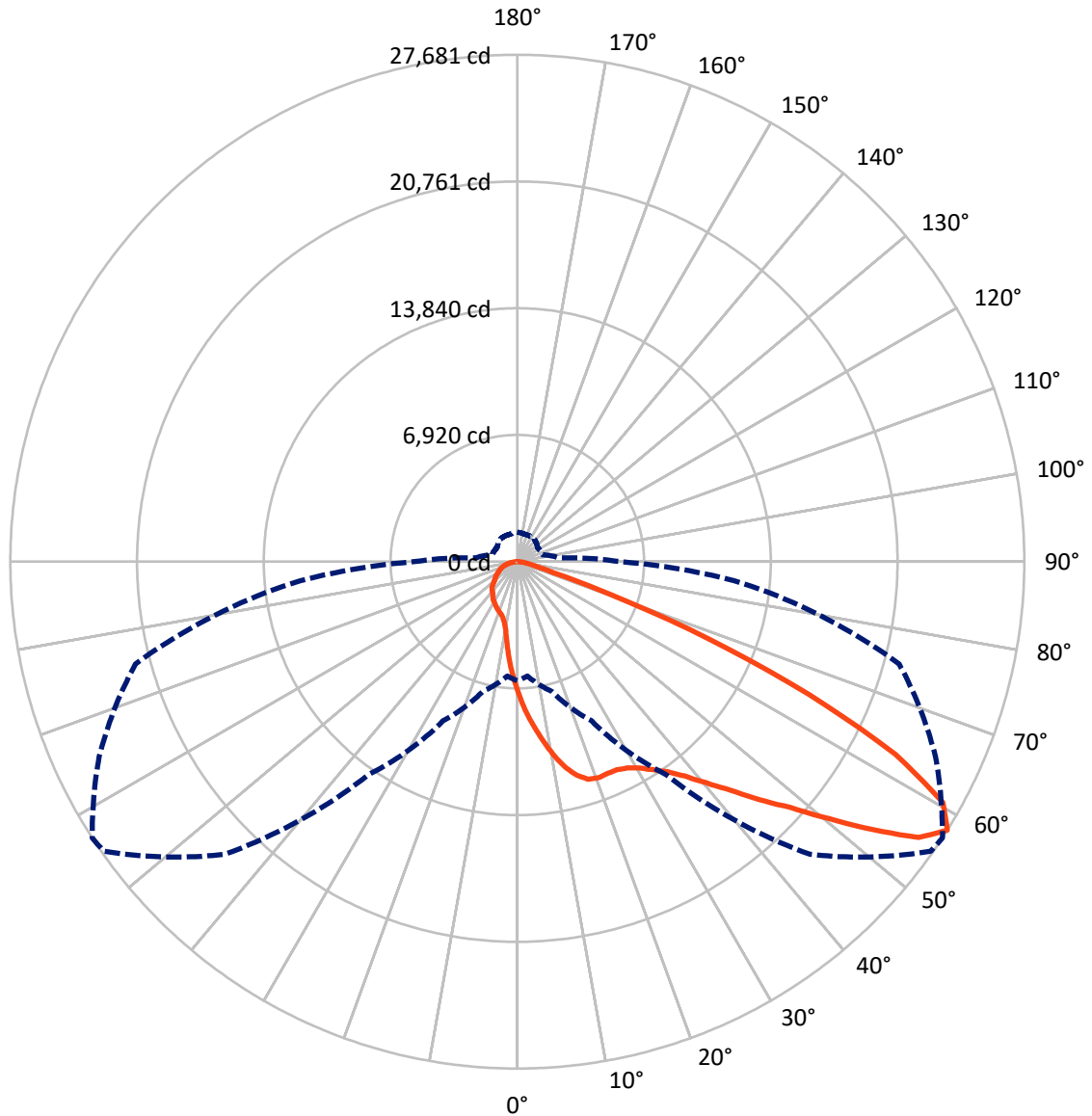
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.4 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	5186.9	0.0	5186.9
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	28921.1	0.0	28921.1
	% Fixture	84.8	0.0	84.8
Total	Lumens	34108.0	0.0	34108.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	688.7	2.0
10°-20°	2029.6	6.0
20°-30°	3370.2	9.9
30°-40°	5076.5	14.9
40°-50°	7621.9	22.3
50°-60°	8543.2	25.0
60°-70°	4999.9	14.7
70°-80°	1478.9	4.3
80°-90°	298.9	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°	34108.0	100.0
0°-180°	34108.0	100.0

Coefficient of Utilization



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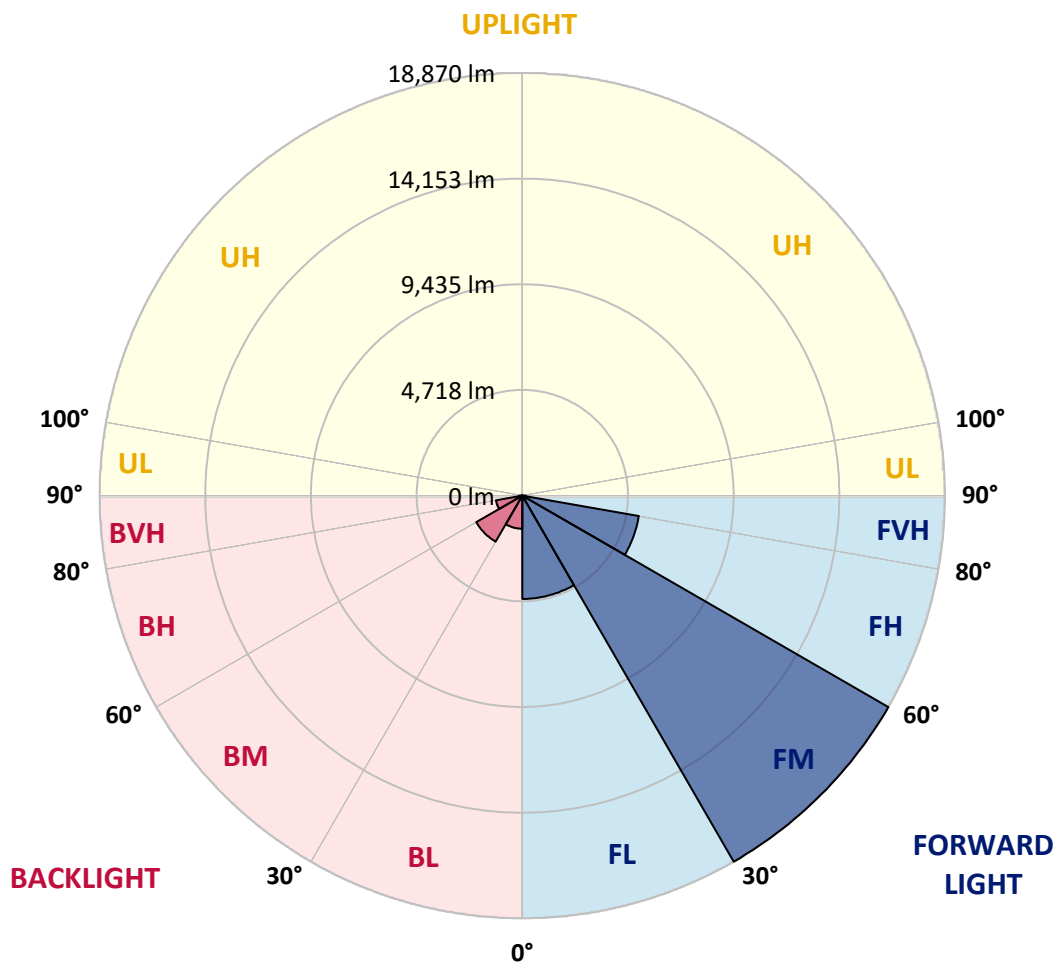
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4610.6	13.5			
FM	(30°-60°)	18870.0	55.3			
FH	(60°-80°)	5285.4	15.5			G3/7500
FVH	(80°-90°)	155.1	0.5			G2/225
BL	(0°-30°)	1477.9	4.3	B3/2500		
BM	(30°-60°)	2371.6	7.0	B2/2500		
BH	(60°-80°)	1193.5	3.5	B3/2500		G3/2500
BVH	(80°-90°)	143.8	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°	7165.7	7165.7	7165.7	7165.7	7165.7	7165.7	7165.7	7165.7	7165.7	7165.7	7165.7
2.5°	8903.9	8806.8	8730.3	8663.1	8575.3	8338.2	8101.1	8097.4	7908.8	7617.5	7318.8
5°	10354.6	10223.9	10240.7	10031.6	9822.5	9479.0	8976.7	8950.6	8549.2	8004.0	7449.5
7.5°	11299.3	11301.2	11248.9	11129.4	10903.5	10513.3	9943.9	9815.0	9256.8	8429.7	7598.9
10°	11250.8	11301.2	11388.9	11491.6	11560.7	11368.4	10849.4	10692.5	9966.3	8945.0	7765.0
12.5°	10604.8	10683.2	10808.3	11065.9	11482.3	11799.7	11622.3	11495.4	10787.8	9458.4	7948.0
15°	10201.5	10248.2	10317.3	10490.9	10939.0	11698.9	12158.2	12091.0	11562.6	10039.1	8153.4
17.5°	10078.3	10125.0	10147.4	10253.8	10573.0	11351.6	12369.1	12488.6	12249.7	10573.0	8360.6
20°	10201.5	10223.9	10223.9	10287.4	10537.6	11148.1	12359.8	12600.7	12813.5	11213.4	8554.8
22.5°	10524.5	10533.8	10520.8	10543.2	10729.9	11204.1	12272.1	12570.8	13269.1	11756.8	8706.0
25°	11049.1	11064.1	10978.2	10925.9	11062.2	11450.6	12320.6	12595.1	13625.7	12275.8	8806.8
27.5°	11644.7	11663.4	11558.8	11437.5	11501.0	11754.9	12511.0	12757.5	13892.6	12787.4	8870.3
30°	12374.7	12382.2	12206.7	12061.1	12020.0	12208.6	12835.9	13065.5	14225.0	13390.4	8965.5
32.5°	13121.6	13177.6	12951.7	12746.3	12677.2	12735.1	13315.7	13537.9	14620.8	14038.3	9118.6
35°	14137.2	14146.6	13875.8	13625.7	13397.9	13472.6	13930.0	14090.6	15167.8	14787.0	9335.2
37.5°	15404.9	15490.8	15117.4	14650.7	14370.6	14262.3	14673.1	14848.6	15935.2	15705.5	9661.9
40°	16812.7	16844.4	16525.2	16233.9	15722.3	15408.7	15692.5	15882.9	16881.8	16801.5	10040.9
42.5°	17697.7	17766.8	17791.0	17761.2	17376.5	16850.0	16958.3	17047.9	18002.0	17830.2	10429.3
45°	17996.4	18099.1	18446.4	19182.0	19223.0	18704.0	18452.0	18537.8	19223.0	18868.3	10800.8
47.5°	17501.6	17677.1	18317.5	19826.1	20955.7	20994.9	20235.0	20046.4	20335.8	19729.0	11069.7
50°	16222.7	16260.1	17240.2	19424.7	21767.8	23184.9	22398.9	22047.9	21392.5	20365.7	11254.5
52.5°	14243.6	14286.6	15108.1	17559.5	21267.5	24715.9	24930.6	24303.3	22466.1	20860.4	11375.9
55°	10573.0	10821.4	11725.0	14094.3	18896.3	24572.1	26943.3	26586.7	23763.7	21252.5	11566.3
57.5°	6501.0	6273.3	7344.9	9589.1	14211.9	22596.8	27565.0	27680.7	25192.0	21581.1	11885.6
60°	2991.0	3035.8	3478.3	4945.8	8663.1	17677.1	25963.1	26694.9	25981.7	21569.9	11965.9
62.5°	2061.2	2020.1	1908.1	2171.4	3950.7	11179.8	21930.3	23170.0	24398.5	20899.6	11646.6
65°	1842.8	1801.7	1585.1	1512.3	1814.8	4873.0	15942.7	17507.2	20543.0	19208.1	10851.2
67.5°	1721.4	1665.4	1441.4	1299.5	1295.7	1939.9	9400.5	11284.4	15236.9	16239.5	9402.4
70°	1594.5	1549.6	1327.5	1170.6	1103.4	1219.2	4131.8	5408.8	9893.4	11702.6	7324.4
72.5°	1467.5	1415.2	1215.4	1047.4	959.7	913.0	1583.3	2059.3	5589.9	7016.3	4490.2
75°	1282.7	1256.5	1086.6	948.5	853.2	737.5	1004.5	1146.4	2673.6	3222.5	2253.5
77.5°	1122.1	1094.1	965.3	829.0	759.9	599.3	713.2	778.6	1127.7	1306.9	1017.5
80°	821.5	849.5	814.0	731.9	677.7	470.5	479.8	534.0	670.3	741.2	621.7
82.5°	520.9	573.2	627.3	563.8	513.4	371.5	332.3	352.9	457.4	485.4	276.3
85°	218.4	222.2	364.1	343.5	293.1	220.3	199.8	211.0	244.6	255.8	128.8
87.5°	84.0	82.1	128.8	119.5	91.5	63.5	63.5	70.9	97.1	89.6	41.1
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°	7165.7	7165.7	7165.7	7165.7	7165.7	7165.7	7165.7	7165.7	7165.7	7165.7	7165.7
2.5°	7190.0	7057.4	6794.2	6467.4	6228.4	5959.6	5722.5	5552.6	5489.1	5459.2	5403.2
5°	7184.4	6923.0	6377.8	5806.5	5347.2	4876.7	4479.0	4221.4	4199.0	4027.2	4010.4
7.5°	7186.2	6786.7	5918.5	5078.3	4378.2	3896.5	3567.9	3482.0	3379.3	3353.2	3366.3
10°	7191.8	6613.1	5425.6	4357.7	3679.9	3364.4	3241.2	3207.6	3211.3	3222.5	3224.4
12.5°	7199.3	6445.0	4914.0	3810.6	3287.9	3157.2	3144.1	3174.0	3205.7	3230.0	3235.6
15°	7208.6	6252.7	4415.6	3370.0	3091.8	3080.6	3123.6	3174.0	3218.8	3254.3	3259.9
17.5°	7197.4	6028.7	3997.3	3099.3	2983.5	3037.7	3108.6	3172.1	3213.2	3246.8	3250.5
20°	7171.3	5778.5	3594.1	2908.8	2916.3	3004.1	3080.6	3140.4	3185.2	3202.0	3215.0
22.5°	7070.5	5479.8	3243.0	2761.4	2836.0	2957.4	3048.9	3084.4	3033.9	2998.5	3007.8
25°	6898.7	5091.4	2916.3	2641.9	2763.2	2892.0	2985.4	2899.5	2858.4	2843.5	2851.0
27.5°	6684.0	4665.7	2669.9	2516.8	2669.9	2819.2	2793.1	2778.2	2759.5	2735.2	2740.8
30°	6452.5	4249.4	2460.8	2419.7	2569.0	2654.9	2666.1	2690.4	2669.9	2632.5	2647.5
32.5°	6237.8	3857.3	2302.1	2337.5	2498.1	2485.0	2569.0	2597.1	2501.8	2376.7	2382.3
35°	6054.8	3493.2	2182.6	2257.3	2376.7	2382.3	2466.4	2369.3	2266.6	2206.8	2210.6
37.5°	5916.7	3209.4	2104.2	2188.2	2221.8	2292.7	2247.9	2197.5	2184.4	2143.4	2145.2
40°	5834.5	2961.1	2053.7	2134.0	2128.4	2177.0	2033.2	2083.6	2102.3	2089.2	2091.1
42.5°	5752.4	2785.6	2001.5	2059.3	2057.5	1962.3	1930.5	1973.5	2022.0	2027.6	2023.9
45°	5687.0	2649.3	1947.3	1945.5	1982.8	1833.4	1824.1	1850.2	1919.3	1952.9	1951.1
47.5°	5614.2	2535.4	1865.2	1812.9	1824.1	1753.2	1738.2	1749.4	1833.4	1887.6	1902.5
50°	5522.7	2421.6	1762.5	1691.5	1644.9	1678.5	1682.2	1684.1	1768.1	1829.7	1842.8
52.5°	5449.9	2335.7	1644.9	1592.6	1536.6	1611.3	1639.3	1643.0	1693.4	1743.8	1753.2
55°	5492.8	2287.1	1529.1	1491.8	1441.4	1542.2	1596.3	1603.8	1615.0	1652.3	1657.9
57.5°	5621.7	2298.3	1435.8	1387.2	1349.9	1460.0	1551.5	1557.1	1549.6	1594.5	1601.9
60°	5660.9	2292.7	1366.7	1271.5	1249.0	1372.3	1486.2	1497.4	1495.5	1560.8	1573.9
62.5°	5496.6	2221.8	1297.6	1174.4	1159.4	1282.7	1394.7	1439.5	1448.8	1542.2	1559.0
65°	5110.1	2076.1	1206.1	1071.7	1071.7	1187.4	1306.9	1368.5	1394.7	1519.8	1538.4
67.5°	4600.4	1904.4	1112.8	983.9	980.2	1096.0	1213.6	1277.1	1318.1	1488.0	1499.2
70°	3818.1	1672.9	997.0	888.7	888.7	993.3	1099.7	1176.2	1236.0	1428.3	1428.3
72.5°	2615.7	1390.9	857.0	780.4	782.3	879.4	987.7	1073.5	1144.5	1308.8	1312.5
75°	1654.2	1086.6	703.9	664.7	672.1	763.6	875.6	965.3	1107.2	1293.9	1299.5
77.5°	879.4	763.6	560.1	550.8	560.1	644.1	769.2	892.4	1110.9	1122.1	1103.4
80°	569.4	541.4	442.5	423.8	427.6	519.0	685.2	847.6	892.4	903.6	862.6
82.5°	309.9	343.5	313.7	295.0	295.0	405.1	584.4	674.0	640.4	532.1	507.8
85°	132.6	160.6	162.4	141.9	136.3	250.2	392.1	367.8	341.7	326.7	323.0
87.5°	37.3	52.3	52.3	39.2	29.9	69.1	78.4	22.4	0.0	1.9	3.7
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)