

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: P531920

Luminaire Tested: **GALN-SA7B-730-U-AFL-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531920  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7B-730-U-AFL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32570 lumens  
Efficiency: N/A  
Efficacy: 113.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

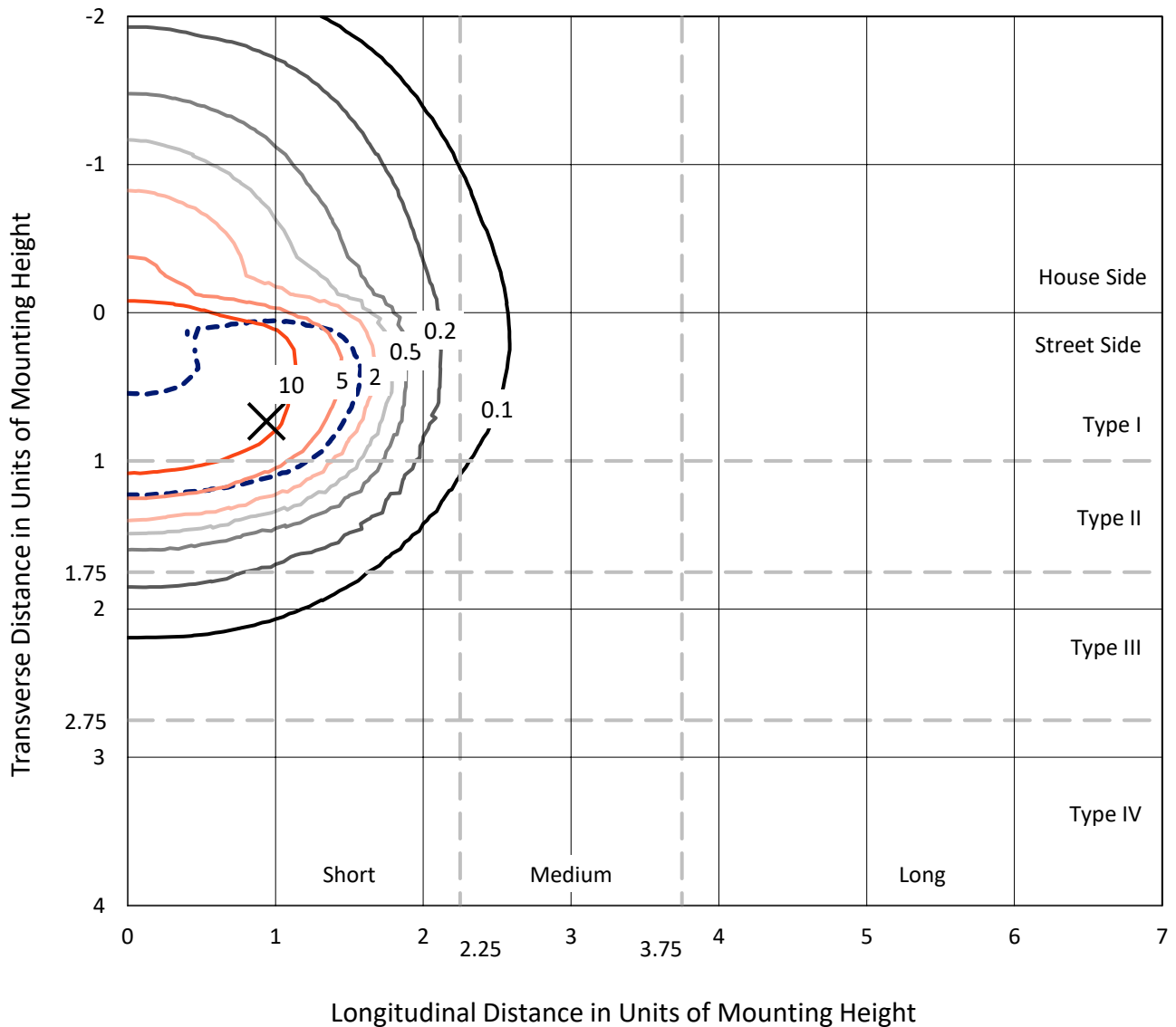
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

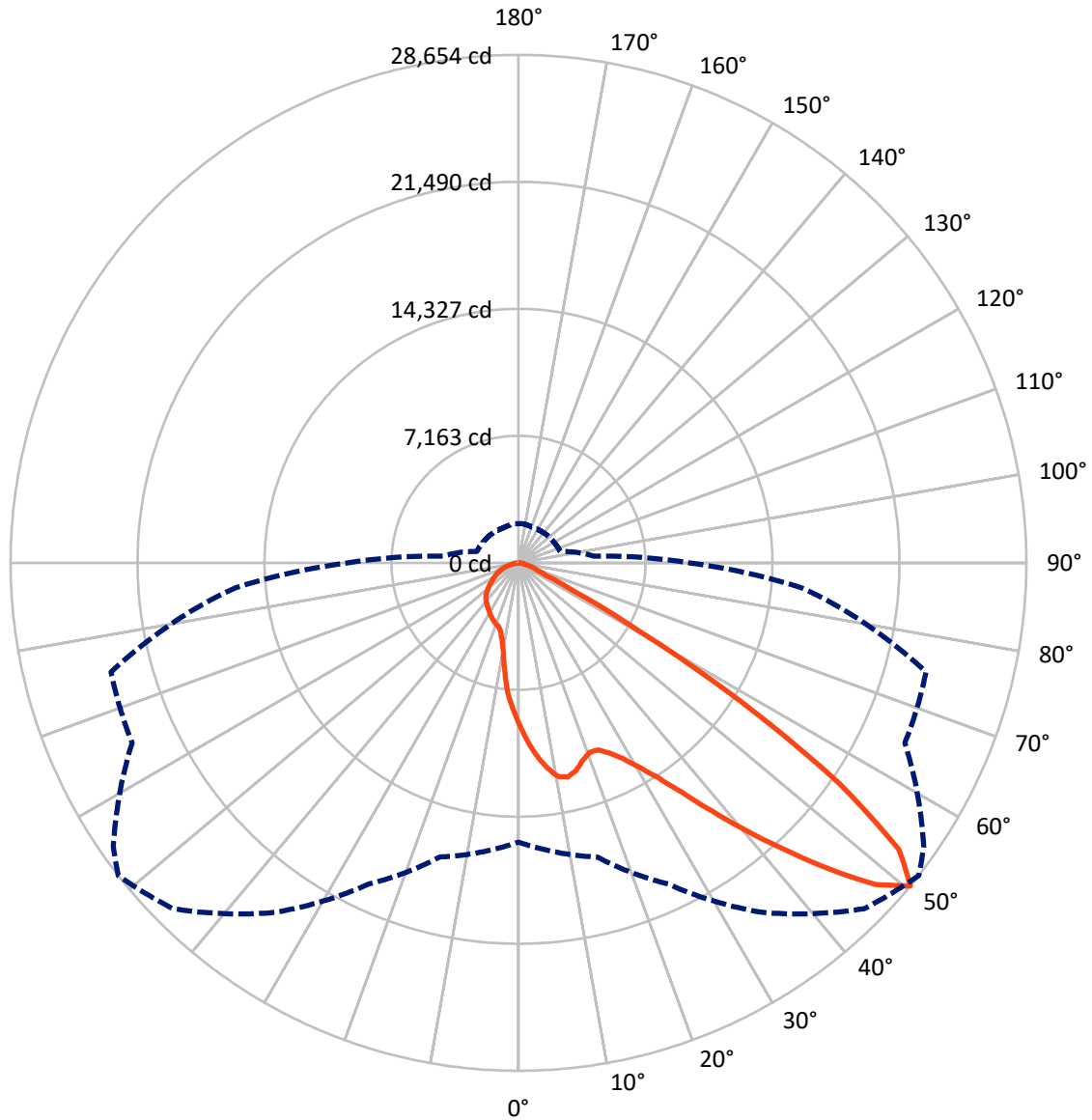
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6122.4	0.0	6122.4
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	26447.6	0.0	26447.6
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	32570.0	0.0	32570.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	846.2	2.6
10°-20°	2268.0	7.0
20°-30°	3820.4	11.7
30°-40°	6411.0	19.7
40°-50°	9807.2	30.1
50°-60°	7150.3	22.0
60°-70°	1591.3	4.9
70°-80°	574.0	1.8
80°-90°	101.6	0.3
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°	32570.0	100.0
0°-180°	32570.0	100.0

**Coefficient of Utilization**

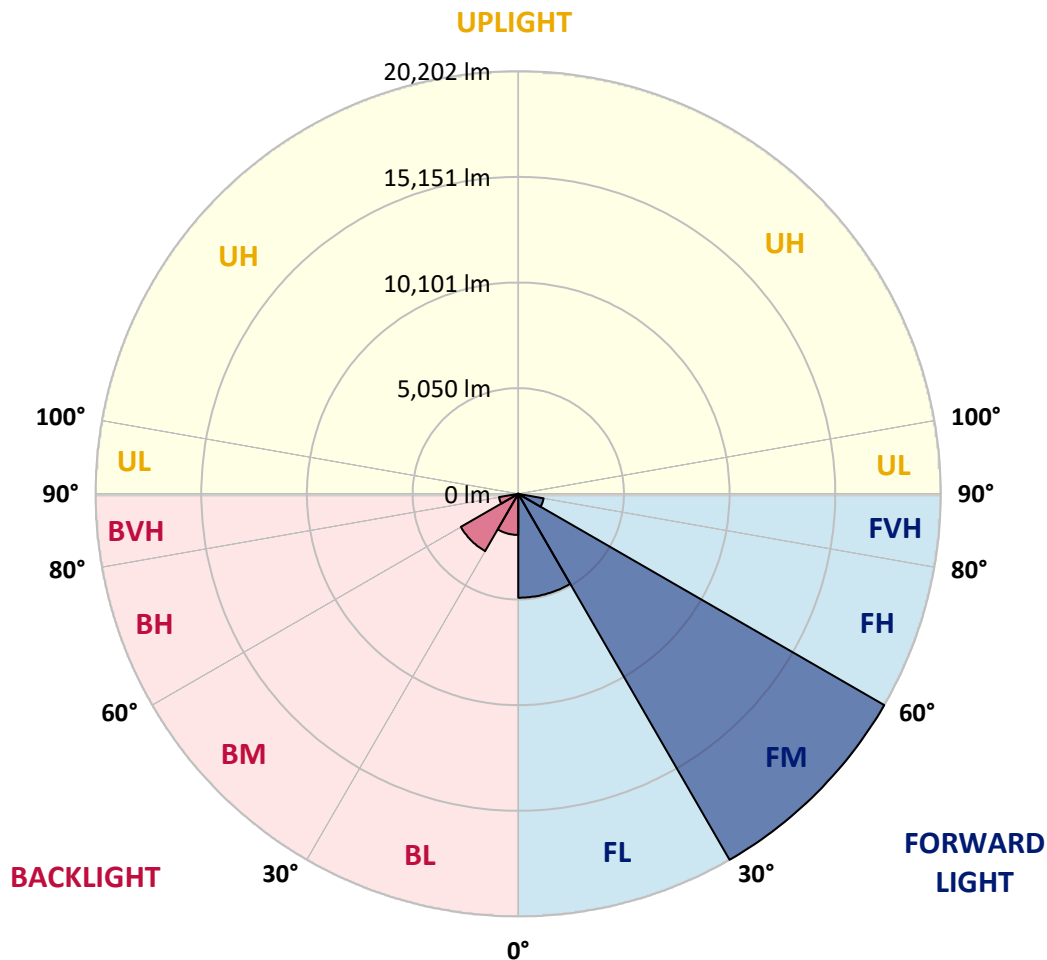


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4968.0	15.3			
FM (30°-60°)	20201.6	62.0			
FH (60°-80°)	1232.5	3.8			G1/1800
FVH (80°-90°)	45.5	0.1			G1/100
BL (0°-30°)	1966.6	6.0	B3/2500		
BM (30°-60°)	3166.9	9.7	B3/5000		
BH (60°-80°)	932.8	2.9	B2/1000		G2/1000
BVH (80°-90°)	56.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	9180.9	9180.9	9180.9	9180.9	9180.9	9180.9	9180.9	9180.9	9180.9	9180.9	9180.9
2.5°	10809.9	10601.9	10625.4	10476.2	10315.3	10268.2	10103.4	9946.3	9828.6	9577.4	9345.8
5°	11814.7	11751.9	11657.7	11540.0	11418.3	11120.0	10951.2	10754.9	10323.2	9934.6	9549.9
7.5°	11960.0	11948.2	11999.2	11999.2	12042.4	11928.6	11689.1	11551.7	11092.5	10460.5	9746.2
10°	10939.4	10974.7	11222.0	11543.9	11991.4	12301.4	12262.2	12226.9	11724.4	10860.9	9977.7
12.5°	10126.9	10048.4	10193.6	10468.4	11139.6	11889.3	12395.6	12399.6	12270.0	11500.7	10146.5
15°	9667.7	9722.6	9761.9	9891.4	10397.7	11265.2	12156.2	12419.2	12988.3	11952.1	10413.4
17.5°	9962.0	9777.6	9769.7	9801.1	10060.2	10711.8	11712.7	12164.1	13380.9	12533.0	10743.2
20°	10346.7	10342.8	10232.9	10193.6	10189.7	10770.6	11422.2	12034.5	13588.9	13286.7	11076.8
22.5°	11021.8	11021.8	10841.3	10754.9	10570.4	11045.4	11461.5	11877.5	13934.3	13804.8	11237.7
25°	12152.3	11967.8	11657.7	11445.8	11339.8	11508.6	11877.5	12250.4	14236.5	14354.3	11571.4
27.5°	13196.4	12905.9	12752.8	12387.8	12246.5	12148.4	12485.9	12862.7	14589.8	15210.0	11751.9
30°	14381.8	14330.7	14056.0	13585.0	13235.6	13055.1	13365.2	13738.1	15237.5	16085.3	12168.0
32.5°	16501.4	16038.2	15665.3	15088.3	14519.2	14134.5	14440.7	14687.9	16313.0	16999.9	12623.3
35°	18789.7	18640.6	17996.8	16956.7	16085.3	15739.9	15920.4	16104.9	17565.1	18397.2	13388.7
37.5°	21038.8	20834.7	20304.8	19429.5	18369.7	17667.1	17796.7	18012.5	18970.3	20281.3	14322.9
40°	22656.0	22404.8	22137.9	22008.4	20956.4	19994.8	19920.2	19975.1	20870.1	22047.6	15359.1
42.5°	22773.8	23083.9	23166.3	23688.3	23441.0	22652.1	22192.8	22204.6	22683.5	23794.3	16407.2
45°	22526.5	22239.9	22848.3	24273.2	25089.6	25458.6	24685.3	24587.2	23806.1	24807.0	16929.2
47.5°	19931.9	20010.5	21038.8	23291.9	25650.9	27299.5	27118.9	26793.1	24406.6	24771.7	16846.8
50°	15755.6	16230.5	17184.3	19990.8	24080.8	27589.9	28653.6	27900.0	24049.4	23798.2	16006.8
52.5°	10491.9	10688.2	11316.2	14939.1	19362.8	24661.8	26887.3	27060.0	23719.7	22522.6	14943.1
55°	4670.9	4655.2	5538.4	7803.2	12148.4	18766.2	21969.1	23021.0	22451.9	21223.3	13906.8
57.5°	1978.3	2045.0	2406.1	3371.7	5974.1	11324.1	14884.2	15806.6	17266.8	17427.7	10668.6
60°	1338.5	1346.3	1444.5	1687.8	2500.3	5318.6	7807.1	8914.0	9958.1	9887.5	5660.1
62.5°	1051.9	1079.4	1154.0	1252.1	1483.7	2414.0	3493.4	4109.6	4176.4	3513.0	2147.1
65°	898.9	902.8	977.4	1059.8	1161.8	1405.2	1683.9	1715.3	1734.9	1672.1	1577.9
67.5°	741.9	749.7	808.6	902.8	997.0	1075.5	1154.0	1193.2	1283.5	1460.2	1436.6
70°	588.8	600.5	651.6	730.1	816.4	863.5	961.7	997.0	1079.4	1216.8	1271.8
72.5°	447.5	451.4	494.6	549.5	628.0	675.1	757.6	796.8	851.8	969.5	1020.5
75°	321.9	333.6	365.0	392.5	404.3	435.7	514.2	557.4	635.9	686.9	690.8
77.5°	168.8	176.6	184.5	184.5	223.7	282.6	333.6	357.2	412.1	451.4	431.8
80°	66.7	70.7	90.3	121.7	157.0	204.1	239.4	251.2	298.3	321.9	333.6
82.5°	39.3	43.2	58.9	86.4	113.8	145.2	172.7	184.5	215.9	243.4	251.2
85°	19.6	23.6	35.3	55.0	74.6	90.3	86.4	82.4	82.4	78.5	82.4
87.5°	7.9	7.9	11.8	11.8	11.8	15.7	19.6	19.6	19.6	23.6	23.6
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°	9180.9	9180.9	9180.9	9180.9	9180.9	9180.9	9180.9	9180.9	9180.9	9180.9	9180.9
2.5°	9192.7	9035.7	8890.5	8623.6	8333.1	8250.7	7913.1	7791.4	7705.1	7603.0	7571.6
5°	9239.8	9031.8	8564.7	8026.9	7599.1	7049.6	6688.5	6299.9	6017.3	5946.6	5927.0
7.5°	9337.9	8980.8	8176.1	7363.6	6488.3	5742.5	5173.4	4867.2	4596.4	4580.7	4553.2
10°	9447.9	8827.7	7752.2	6476.5	5357.8	4667.0	4325.5	4192.1	4125.3	4109.6	4101.8
12.5°	9538.1	8796.3	7277.2	5613.0	4557.1	4141.0	4039.0	4027.2	4054.7	4062.5	4078.2
15°	9577.4	8670.7	6704.2	4839.7	4058.6	3905.5	3948.7	3995.8	4015.4	4066.5	4027.2
17.5°	9652.0	8509.7	5997.6	4227.4	3779.9	3807.4	3882.0	3936.9	3968.3	4003.7	3952.6
20°	9691.2	8364.5	5334.3	3862.4	3681.8	3732.8	3834.9	3878.1	3917.3	3933.0	3874.1
22.5°	9655.9	8066.2	4749.4	3568.0	3587.6	3654.3	3744.6	3791.7	3768.2	3705.3	3670.0
25°	9561.7	7646.2	4141.0	3379.6	3454.1	3571.9	3642.5	3607.2	3564.0	3528.7	3516.9
27.5°	9557.8	7132.0	3701.4	3206.9	3340.3	3501.2	3477.7	3446.3	3465.9	3438.4	3407.0
30°	9577.4	6633.5	3340.3	3108.7	3257.9	3336.4	3363.9	3332.5	3356.0	3305.0	3320.7
32.5°	9475.3	6146.8	3104.8	2994.9	3159.8	3155.8	3246.1	3269.7	3214.7	3108.7	3124.4
35°	9518.5	5754.3	2904.6	2943.9	3049.8	3049.8	3120.5	3093.0	2947.8	2885.0	2900.7
37.5°	9816.8	5369.6	2806.5	2873.2	2943.9	2975.3	2951.7	2834.0	2798.6	2798.6	2806.5
40°	10099.4	5039.9	2747.6	2857.5	2845.7	2865.4	2692.7	2704.4	2704.4	2708.4	2688.7
42.5°	10350.6	4816.2	2700.5	2763.3	2782.9	2680.9	2574.9	2563.1	2590.6	2586.7	2571.0
45°	10440.9	4631.7	2633.8	2657.3	2673.0	2504.3	2453.2	2429.7	2461.1	2472.8	2488.5
47.5°	10095.5	4478.6	2559.2	2512.1	2480.7	2370.8	2304.1	2260.9	2300.1	2366.9	2382.6
50°	9652.0	4278.4	2441.4	2351.2	2284.4	2237.3	2190.2	2147.1	2174.5	2221.6	2209.9
52.5°	8996.5	3964.4	2292.3	2198.1	2084.3	2096.0	2052.9	2029.3	2045.0	2045.0	2033.2
55°	8062.3	3257.9	2041.1	1974.4	1880.2	1911.6	1919.4	1888.0	1856.6	1884.1	1860.5
57.5°	5503.1	2300.1	1821.3	1821.3	1727.1	1770.2	1766.3	1691.7	1617.2	1625.0	1609.3
60°	3183.3	1833.0	1680.0	1664.3	1566.1	1601.5	1609.3	1558.3	1444.5	1452.3	1436.6
62.5°	1809.5	1566.1	1468.0	1444.5	1424.8	1456.2	1456.2	1389.5	1291.4	1299.2	1283.5
65°	1538.7	1452.3	1311.0	1307.1	1299.2	1307.1	1275.7	1205.0	1118.7	1083.3	1087.3
67.5°	1397.4	1342.4	1205.0	1169.7	1146.1	1142.2	1083.3	1016.6	977.4	946.0	942.0
70°	1224.6	1181.5	1079.4	1032.3	1008.8	953.8	894.9	851.8	796.8	781.1	796.8
72.5°	969.5	965.6	926.3	875.3	824.3	781.1	730.1	671.2	620.2	608.4	580.9
75°	671.2	679.1	686.9	679.1	635.9	580.9	522.0	474.9	412.1	376.8	369.0
77.5°	439.6	451.4	463.2	447.5	420.0	369.0	329.7	270.8	223.7	196.3	192.3
80°	321.9	337.6	345.4	333.6	302.2	263.0	219.8	172.7	137.4	113.8	113.8
82.5°	247.3	263.0	270.8	251.2	219.8	188.4	157.0	121.7	94.2	74.6	70.7
85°	86.4	82.4	98.1	102.1	121.7	113.8	94.2	70.7	55.0	39.3	35.3
87.5°	23.6	23.6	27.5	27.5	23.6	19.6	19.6	19.6	15.7	11.8	11.8
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)