

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: P451145

Luminaire Tested: **GALN-SA2A-727-U-T4W-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451145  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA2A-727-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5564 lumens  
Efficiency: N/A  
Efficacy: 88.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

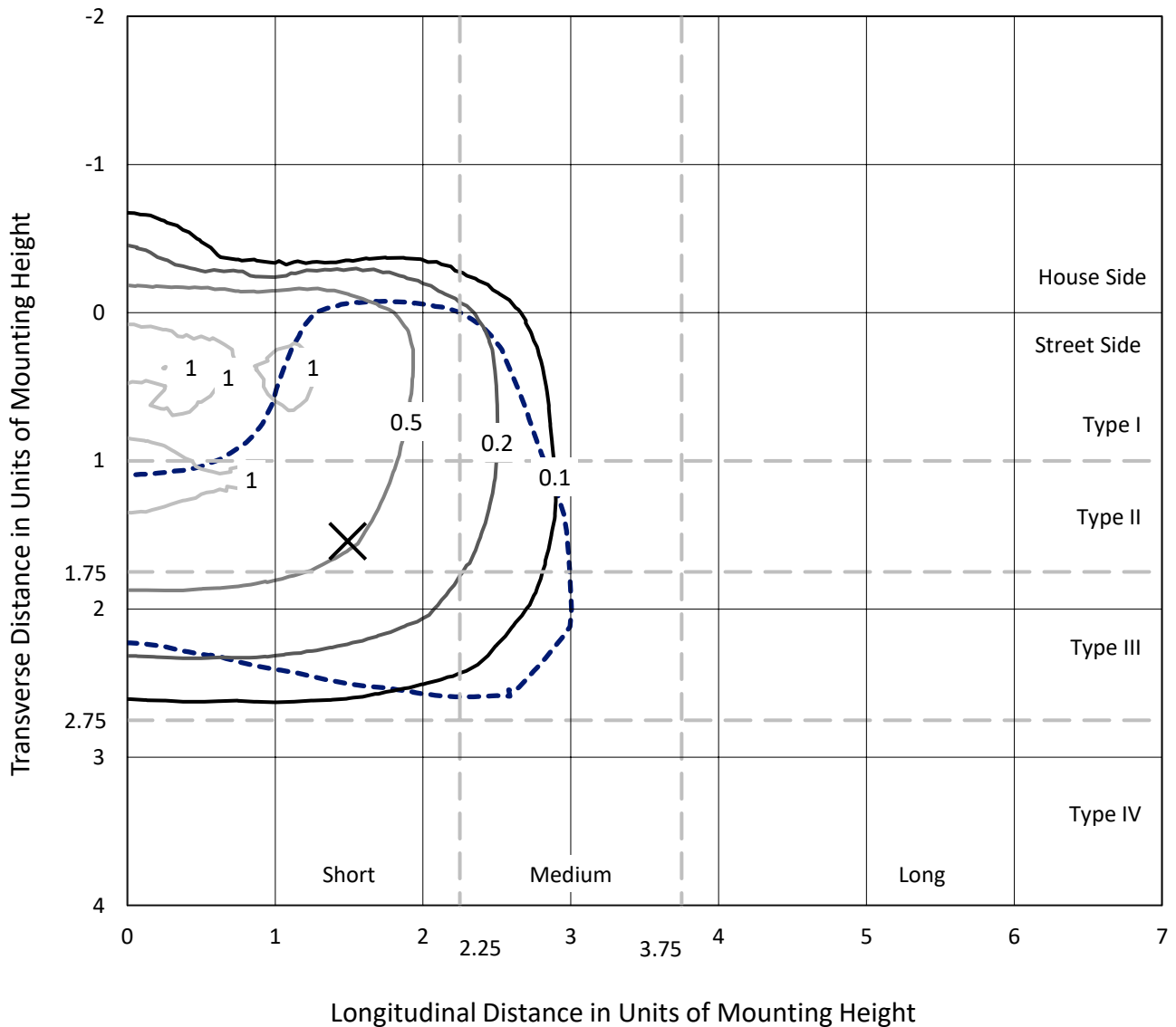
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

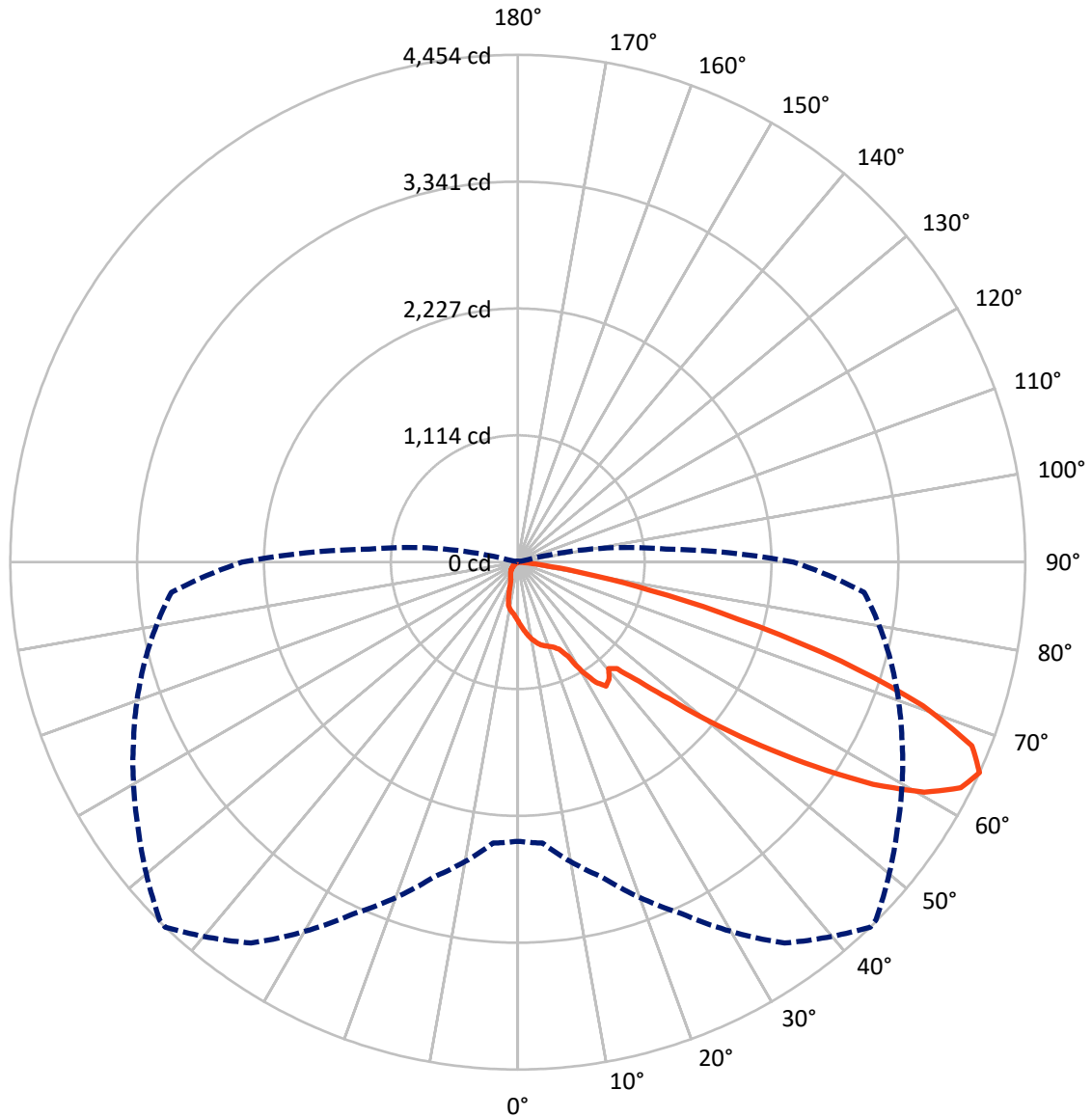
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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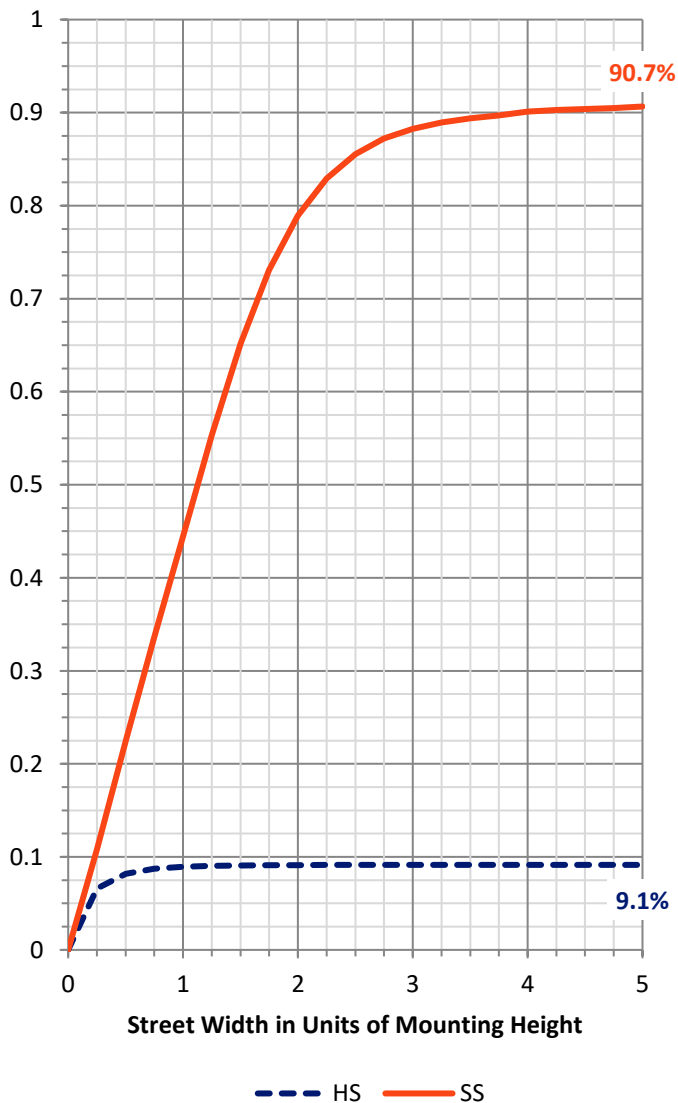
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	512.6	0.0	512.6
	% Fixture	9.2	0.0	9.2
<b>Street Side</b>	Lumens	5051.4	0.0	5051.4
	% Fixture	90.8	0.0	90.8
<b>Total</b>	Lumens	5564.0	0.0	5564.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.5	0.9
10°-20°	155.0	2.8
20°-30°	262.8	4.7
30°-40°	437.0	7.9
40°-50°	763.1	13.7
50°-60°	1490.7	26.8
60°-70°	1729.6	31.1
70°-80°	629.8	11.3
80°-90°	44.4	0.8
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°	5564.0	100.0
0°-180°	5564.0	100.0

**Coefficient of Utilization**



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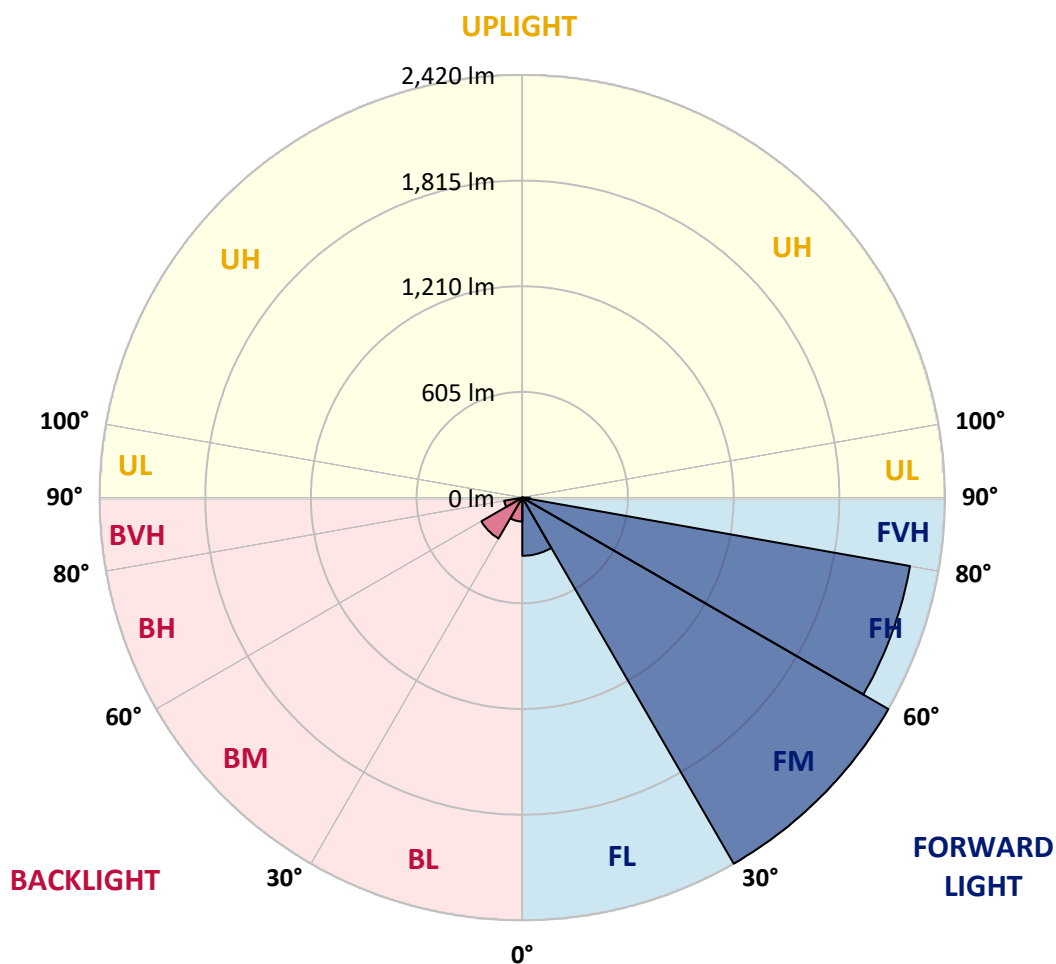
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	332.8	6.0			
FM (30°-60°)	2420.3	43.5			
FH (60°-80°)	2254.5	40.5			G2/5000
FVH (80°-90°)	43.8	0.8			G1/100
BL (0°-30°)	136.6	2.5	B1/500		
BM (30°-60°)	270.5	4.9	B1/1000		
BH (60°-80°)	105.0	1.9	B0/110		G0/110
BVH (80°-90°)	0.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8
2.5°	582.9	580.3	579.1	572.3	567.2	560.8	560.8	552.7	543.4	533.1	523.8
5°	647.9	643.7	638.2	632.2	620.3	603.3	603.3	586.3	566.7	549.3	530.2
7.5°	710.4	706.6	697.3	685.8	666.2	648.4	647.1	622.4	599.0	572.7	545.5
10°	765.3	762.3	754.2	732.1	711.7	688.3	687.9	660.3	633.1	600.7	567.2
12.5°	803.5	804.0	793.3	772.1	745.7	723.6	721.9	694.7	666.2	631.4	590.1
15°	830.8	830.8	819.7	795.9	772.1	752.5	750.8	727.0	697.7	659.8	615.2
17.5°	838.4	841.0	829.1	807.8	788.7	771.7	771.2	751.3	727.9	691.3	640.7
20°	835.4	838.0	828.6	812.1	798.9	789.1	787.8	779.7	758.1	723.6	667.9
22.5°	829.1	831.6	824.8	815.0	808.7	811.6	809.5	816.3	804.8	763.2	700.2
25°	830.3	832.9	827.8	822.3	827.8	846.1	851.6	880.9	870.7	813.3	735.1
27.5°	870.3	875.4	868.2	870.7	890.3	932.8	943.4	994.0	949.0	877.1	789.5
30°	959.2	955.8	942.2	954.5	1022.5	1112.6	1109.7	1101.6	1031.0	950.7	854.1
32.5°	1039.9	1037.0	1036.1	1089.3	1212.6	1256.3	1254.2	1176.0	1104.6	1034.8	917.9
35°	1072.7	1061.2	1058.6	1187.5	1393.7	1335.8	1322.7	1206.6	1193.8	1126.7	983.0
37.5°	1171.3	1163.2	1123.7	1203.6	1321.4	1302.3	1292.1	1259.3	1289.1	1207.9	1056.5
40°	1374.5	1352.0	1316.3	1238.1	1218.9	1227.0	1237.2	1326.9	1401.7	1318.8	1154.7
42.5°	1627.1	1622.0	1555.7	1409.8	1266.5	1277.6	1290.8	1468.1	1563.7	1485.9	1315.0
45°	1930.2	1937.4	1841.8	1669.6	1481.7	1491.0	1510.2	1676.4	1783.1	1745.7	1567.1
47.5°	2205.7	2200.2	2167.9	1988.9	1815.4	1794.6	1825.6	1943.8	2086.7	2092.6	1880.0
50°	2482.9	2512.3	2464.2	2394.1	2265.2	2221.5	2210.0	2267.8	2485.5	2457.0	2255.9
52.5°	2881.3	2896.6	2806.5	2788.6	2817.9	2675.9	2664.5	2678.5	2873.2	2775.4	2537.3
55°	3131.7	3122.8	3089.2	3228.6	3344.7	3167.4	3153.0	3096.4	3195.1	3000.3	2808.2
57.5°	3210.8	3223.5	3301.8	3553.9	3828.5	3678.0	3651.7	3491.0	3427.2	3209.9	3057.3
60°	3175.5	3198.9	3367.7	3742.7	4123.6	4101.1	4078.5	3808.6	3593.9	3385.1	3232.1
62.5°	2924.2	2957.0	3226.9	3709.1	4223.5	4364.2	4336.2	4006.7	3704.8	3470.1	3262.7
65°	2450.6	2474.8	2862.6	3404.2	4081.5	4454.4	4444.2	4068.8	3722.3	3392.3	3053.1
67.5°	1747.0	1829.5	2188.7	2869.0	3661.5	4300.5	4317.9	3994.4	3558.6	3056.0	2528.4
70°	1098.2	1154.3	1411.9	2053.9	2935.3	3772.9	3830.2	3653.8	3088.3	2382.2	1692.6
72.5°	523.8	565.5	749.1	1300.1	2071.8	2968.5	3013.9	2999.5	2388.1	1500.8	873.3
75°	233.4	249.1	357.6	663.7	1337.5	1995.3	2113.0	2132.6	1492.3	734.2	339.7
77.5°	119.0	119.5	167.5	321.4	667.9	1190.4	1213.8	1282.3	809.1	323.5	118.2
80°	63.3	67.6	88.9	151.8	346.5	586.3	583.3	641.1	358.8	158.6	39.5
82.5°	28.5	31.5	50.2	79.5	169.2	222.4	239.8	262.3	153.9	101.2	17.4
85°	8.5	10.2	24.7	40.0	61.2	64.2	71.9	92.7	87.2	71.9	8.9
87.5°	1.3	1.3	10.2	11.1	8.9	11.5	11.9	13.2	28.1	26.4	4.7
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°	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8
2.5°	518.7	515.7	505.1	496.2	488.5	483.8	478.3	474.9	473.2	471.9	472.4
5°	520.8	513.6	495.3	480.9	469.8	457.9	449.8	445.1	443.0	439.6	439.6
7.5°	532.7	521.2	495.7	473.6	454.5	438.3	423.0	417.5	413.7	412.8	412.0
10°	549.7	535.3	500.4	469.8	442.6	420.5	398.8	379.7	364.8	355.9	354.6
12.5°	571.0	550.2	507.6	467.2	432.4	393.3	335.9	297.2	271.3	263.2	264.4
15°	590.5	568.0	514.9	465.1	413.7	326.1	261.0	216.8	203.7	202.4	202.8
17.5°	613.9	587.1	523.4	462.1	362.2	249.1	193.9	182.0	184.5	188.8	188.3
20°	638.2	607.6	533.6	444.3	289.1	187.5	171.3	172.6	176.4	180.3	181.1
22.5°	664.1	630.9	545.5	401.3	220.7	163.3	162.4	164.1	167.9	172.2	173.0
25°	699.8	660.3	554.4	345.2	167.1	150.9	152.6	155.6	159.0	163.7	164.5
27.5°	745.7	699.8	559.1	272.1	144.6	139.9	140.3	144.6	148.8	153.1	153.1
30°	805.2	747.0	549.7	205.8	133.5	129.2	127.5	130.1	135.6	139.9	140.3
32.5°	858.4	791.6	525.1	157.3	125.4	119.5	115.2	115.6	117.8	120.3	120.7
35°	911.5	835.0	483.0	132.2	116.9	110.1	103.7	100.3	98.6	97.4	98.6
37.5°	979.6	889.0	426.9	120.3	109.7	101.2	92.3	85.0	79.1	75.3	76.1
40°	1067.1	963.8	360.5	112.7	102.9	92.7	80.8	71.4	61.2	57.8	56.1
42.5°	1211.7	1077.4	290.8	106.3	96.1	83.8	68.9	56.1	46.8	43.4	44.2
45°	1440.0	1220.6	224.1	99.5	89.3	74.0	57.8	44.2	36.6	34.9	35.7
47.5°	1742.7	1406.0	172.6	91.8	80.8	63.3	45.5	34.9	30.2	29.8	29.3
50°	2027.6	1578.6	144.1	83.3	70.6	52.7	37.4	29.3	26.4	25.9	25.9
52.5°	2285.2	1702.3	117.3	73.6	59.5	43.4	31.5	25.9	23.4	22.1	22.1
55°	2514.4	1783.1	95.2	61.6	46.8	34.4	27.2	23.4	20.4	18.7	18.3
57.5°	2687.4	1792.9	71.4	49.3	34.9	26.8	23.4	20.4	17.0	14.9	14.0
60°	2761.4	1708.3	52.7	37.4	25.9	21.3	18.7	16.6	12.8	10.6	10.2
62.5°	2687.0	1543.7	39.1	28.5	20.0	15.7	13.2	12.3	8.9	6.4	6.0
65°	2420.4	1306.1	31.0	21.7	14.9	11.5	8.5	8.1	5.5	3.0	2.6
67.5°	1939.1	1022.9	24.7	16.2	10.6	7.7	5.5	5.1	3.0	0.9	0.9
70°	1261.0	653.9	20.0	11.9	6.8	5.1	3.4	2.6	1.7	0.4	0.0
72.5°	623.7	305.7	16.2	9.4	4.7	2.6	1.3	0.9	1.3	0.0	0.0
75°	241.9	108.8	11.9	6.4	2.6	1.3	0.9	0.0	0.4	0.0	0.0
77.5°	80.4	36.1	7.2	3.4	1.7	0.9	0.0	0.0	0.0	0.0	0.0
80°	29.8	14.0	3.8	2.1	0.9	0.4	0.0	0.0	0.0	0.0	0.0
82.5°	11.9	5.5	2.6	1.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.0	3.4	1.7	1.3	0.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.3	2.6	1.7	1.3	0.9	0.4	0.0	0.0	0.0	0.0	0.0
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)