

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: P450965

Luminaire Tested: **GALN-SA1D-740-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450965  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA1D-740-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5747 lumens  
Efficiency: N/A  
Efficacy: 88.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

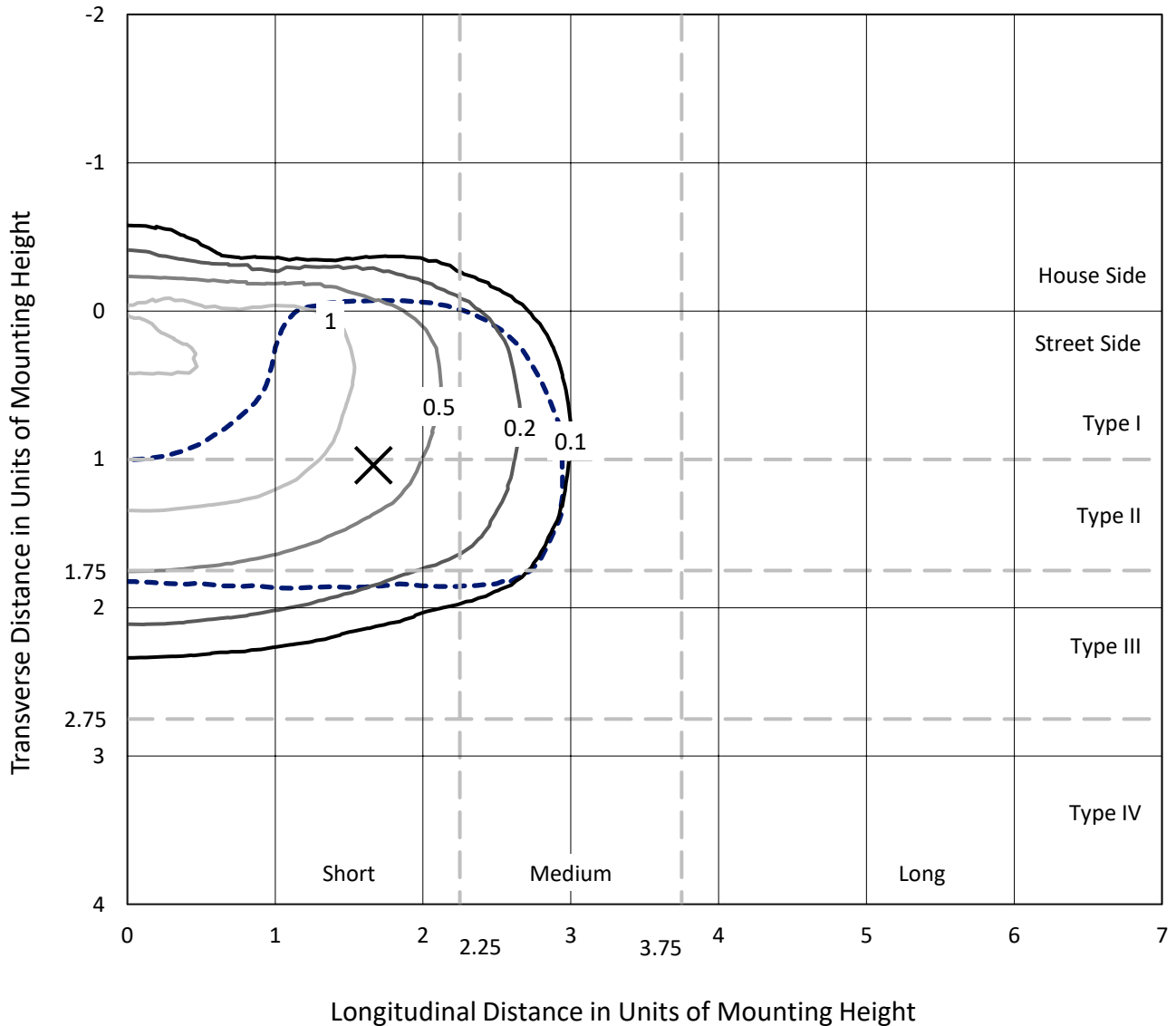
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

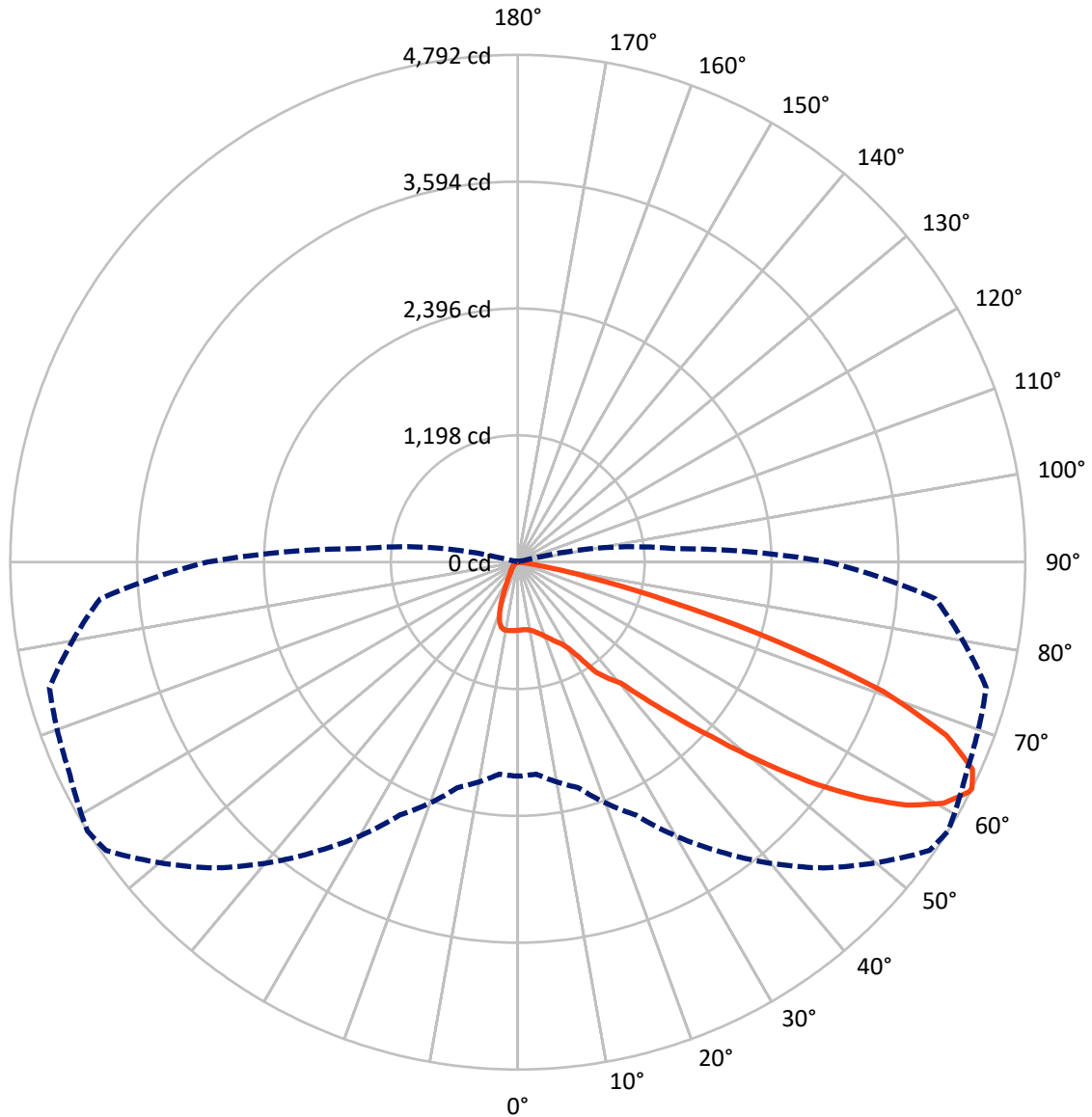
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 63-Deg Vertical

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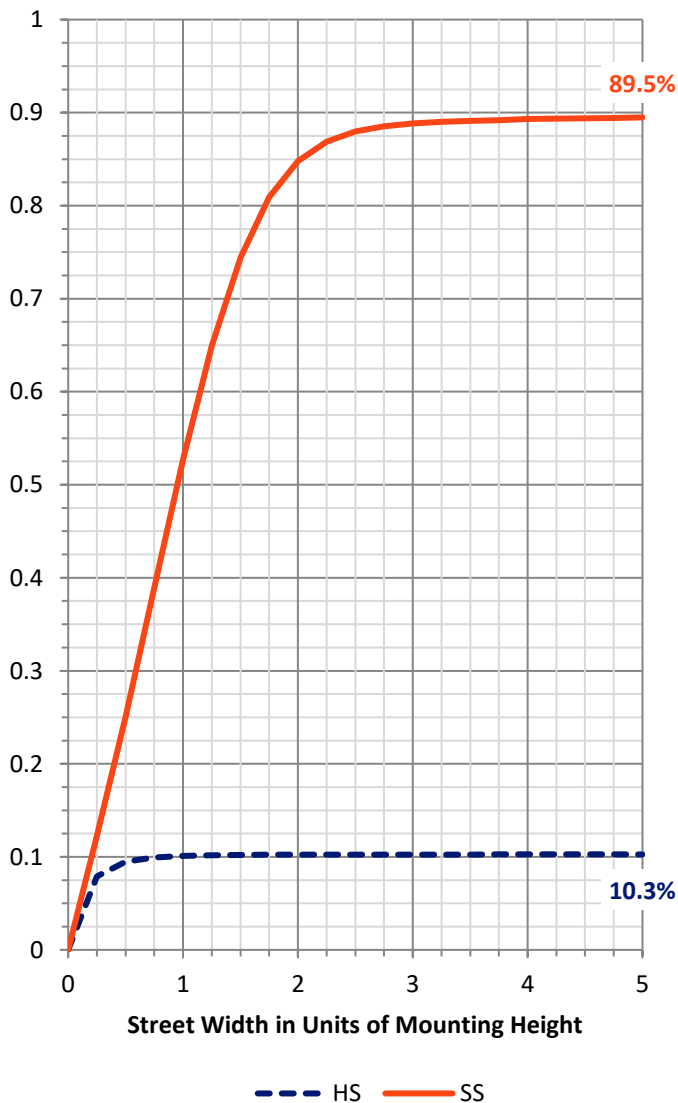
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	595.1	0.0	595.1
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	5151.9	0.0	5151.9
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	5747.0	0.0	5747.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.2	1.0
10°-20°	164.0	2.9
20°-30°	284.7	5.0
30°-40°	523.2	9.1
40°-50°	984.9	17.1
50°-60°	1684.6	29.3
60°-70°	1613.0	28.1
70°-80°	411.3	7.2
80°-90°	21.0	0.4
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°	5747.0	100.0
0°-180°	5747.0	100.0

**Coefficient of Utilization**



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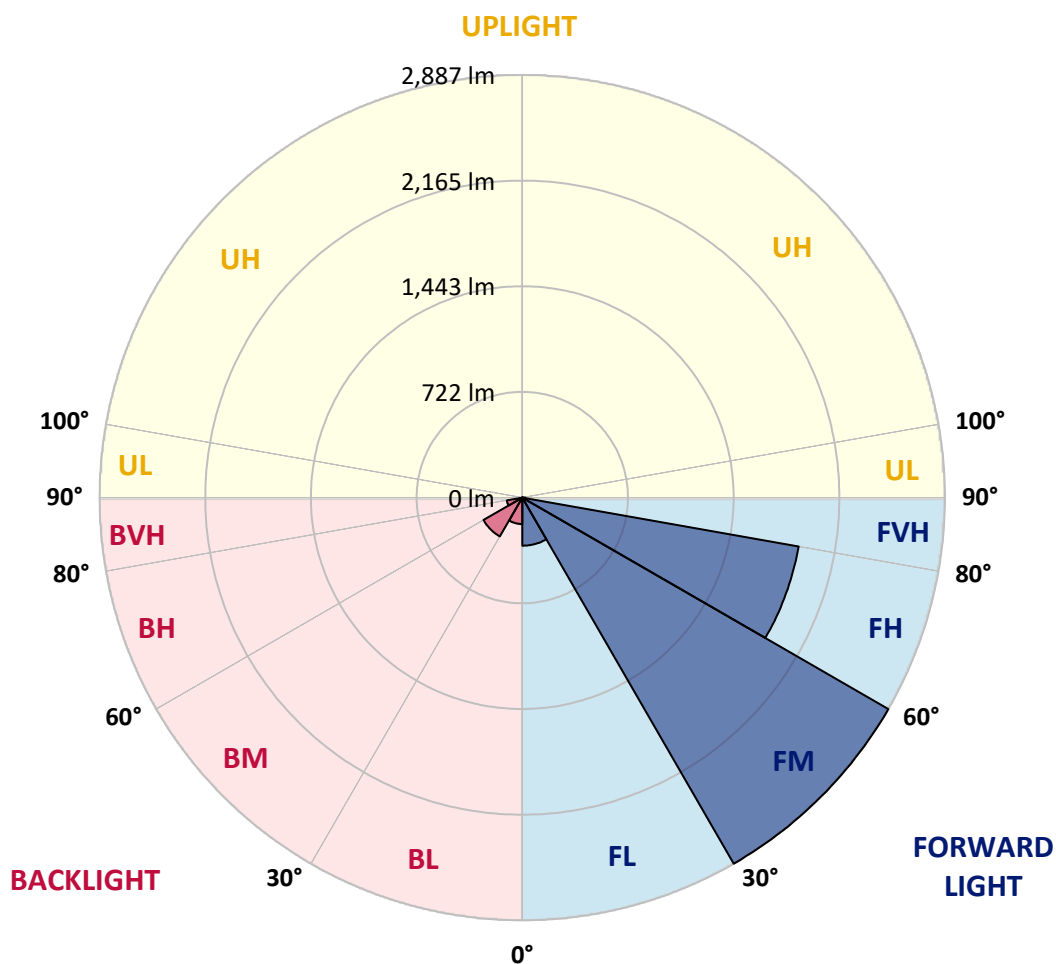
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	328.5	5.7			
FM (30°-60°)	2886.6	50.2			
FH (60°-80°)	1916.6	33.3			G2/5000
FVH (80°-90°)	20.2	0.4			G1/100
BL (0°-30°)	180.5	3.1	B1/500		
BM (30°-60°)	306.1	5.3	B1/1000		
BH (60°-80°)	107.7	1.9	B0/110		G0/110
BVH (80°-90°)	0.8	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°	45°	55°	58°	65°	75°	85°
0°	643.4	643.4	643.4	643.4	643.4	643.4	643.4	643.4	643.4	643.4	643.4
2.5°	627.4	629.6	631.7	632.6	635.6	638.6	640.8	640.4	643.8	645.6	645.6
5°	602.3	602.3	607.9	613.1	621.8	630.4	638.6	640.4	646.9	652.9	655.1
7.5°	581.1	582.4	586.7	596.2	607.9	623.1	639.5	643.4	654.6	668.1	673.7
10°	571.1	572.0	577.6	587.6	602.3	623.1	646.0	653.4	670.7	691.9	699.6
12.5°	569.0	570.3	575.9	587.2	604.0	629.1	660.3	668.1	693.2	720.4	732.1
15°	572.9	573.7	579.4	591.5	610.1	639.9	679.3	690.1	720.0	751.6	766.7
17.5°	586.7	585.9	589.7	599.7	620.5	653.4	702.2	715.2	750.3	793.5	803.5
20°	645.6	639.9	636.5	627.8	636.0	672.4	729.9	749.0	792.2	836.4	843.3
22.5°	772.3	759.8	735.1	701.4	675.4	698.3	763.3	785.3	841.1	884.4	884.4
25°	933.7	917.7	893.1	819.5	755.9	741.2	800.9	828.6	894.4	938.1	923.8
27.5°	1135.8	1123.2	1075.2	989.5	892.2	816.0	844.6	870.1	941.5	994.3	964.4
30°	1300.2	1294.2	1254.8	1178.2	1070.9	959.7	925.9	942.8	1004.3	1065.3	1034.5
32.5°	1439.1	1439.1	1398.9	1327.5	1227.1	1128.4	1064.0	1076.1	1134.9	1205.5	1148.3
35°	1591.8	1586.6	1554.2	1486.3	1373.8	1286.8	1260.4	1276.8	1330.1	1382.4	1241.8
37.5°	1752.4	1750.6	1716.9	1651.1	1559.4	1449.9	1388.0	1392.4	1419.6	1451.6	1351.3
40°	1926.7	1929.3	1885.2	1844.5	1758.0	1645.9	1527.4	1500.1	1525.6	1616.1	1553.3
42.5°	2132.7	2126.6	2107.6	2052.2	1982.6	1915.5	1773.1	1763.2	1785.7	1882.6	1814.7
45°	2372.0	2380.6	2347.7	2317.0	2270.3	2214.5	2095.5	2078.2	2102.8	2253.4	2156.9
47.5°	2611.7	2603.5	2624.7	2619.0	2644.1	2602.6	2497.4	2462.0	2521.2	2664.0	2522.1
50°	2794.3	2803.3	2847.5	2912.0	3019.7	3043.1	2942.2	2930.1	2956.5	3048.2	2848.8
52.5°	2912.8	2943.1	3012.3	3178.1	3372.3	3523.3	3446.7	3440.3	3429.4	3454.1	3161.2
55°	2990.3	3021.0	3111.4	3355.5	3689.9	3935.2	3939.1	3911.4	3840.1	3822.3	3453.2
57.5°	2942.7	2948.7	3077.7	3403.9	3866.0	4229.0	4356.2	4328.6	4196.6	4129.5	3711.1
60°	2645.0	2657.5	2837.1	3220.5	3789.4	4325.1	4632.7	4620.2	4475.7	4399.9	3911.9
62.5°	2117.5	2153.9	2338.6	2766.1	3433.3	4163.3	4744.8	4780.3	4667.8	4563.5	3975.1
63°	2020.6	2008.9	2204.1	2633.7	3339.0	4083.2	4746.5	4791.5	4676.4	4579.1	3957.7
65°	1495.8	1530.8	1657.6	2076.9	2778.7	3710.7	4639.7	4719.3	4644.4	4510.3	3766.1
67.5°	839.8	838.1	978.3	1359.1	1944.9	2910.7	4195.3	4363.6	4348.0	4047.3	3121.8
70°	411.0	417.5	475.1	704.4	1128.0	2008.1	3486.1	3667.8	3673.5	3178.9	2158.7
72.5°	186.1	189.1	230.2	343.1	579.8	1069.2	2402.3	2575.8	2543.7	2025.8	1192.0
75°	98.2	104.7	126.8	172.6	279.5	440.9	1306.7	1474.6	1407.5	925.5	438.7
77.5°	72.7	74.9	86.1	109.9	149.7	171.8	563.8	670.7	628.3	334.9	145.4
80°	53.2	55.0	64.0	77.9	94.3	87.4	212.4	243.6	218.5	113.8	44.6
82.5°	32.5	32.9	46.7	58.0	59.3	48.9	70.1	75.3	78.7	64.0	24.2
85°	11.7	14.7	31.6	42.0	35.0	24.7	29.4	32.5	35.5	40.7	14.3
87.5°	1.3	1.7	15.1	20.3	10.0	9.1	10.8	12.1	13.0	15.1	6.9
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°	643.4	643.4	643.4	643.4	643.4	643.4	643.4	643.4	643.4	643.4	643.4
2.5°	647.3	649.0	647.7	645.6	645.1	643.8	641.2	641.2	641.2	642.1	641.2
5°	656.8	658.1	655.1	650.8	646.0	639.9	633.4	629.6	629.1	628.3	626.1
7.5°	675.0	676.7	669.8	659.4	646.4	631.7	617.9	604.9	598.8	594.1	594.1
10°	701.4	703.1	689.3	670.7	644.7	614.8	582.0	552.1	528.7	517.9	515.3
12.5°	733.0	733.8	710.9	678.4	635.6	578.1	508.0	442.6	397.2	376.4	374.3
15°	767.6	761.5	731.2	681.5	609.6	502.3	381.2	301.1	254.0	240.1	245.3
17.5°	802.6	791.4	746.8	676.7	551.2	381.2	256.1	205.5	190.8	186.9	186.9
20°	835.5	819.9	758.1	655.9	450.0	262.6	189.9	177.8	175.2	172.6	173.1
22.5°	868.4	844.6	768.0	609.6	335.3	187.8	170.0	166.2	162.7	159.2	158.8
25°	900.4	867.5	771.9	524.0	228.5	161.4	155.3	150.1	143.2	139.3	138.5
27.5°	933.7	895.2	769.3	415.8	166.6	144.5	138.5	131.1	122.9	116.0	116.0
30°	997.8	948.0	760.2	299.0	140.2	127.2	119.4	107.7	98.7	91.7	91.3
32.5°	1085.2	1016.8	729.1	210.3	124.6	112.1	100.4	87.4	77.9	72.7	72.7
35°	1163.1	1086.0	670.7	154.9	112.1	97.4	83.1	70.5	63.2	59.7	58.4
37.5°	1281.6	1187.3	590.2	125.9	99.9	84.4	69.7	58.0	51.9	49.3	49.3
40°	1459.4	1311.0	491.5	110.3	88.3	71.8	58.0	48.9	44.1	41.1	41.1
42.5°	1680.1	1462.5	391.6	99.1	77.5	61.9	48.5	41.5	37.2	35.0	34.6
45°	1957.9	1622.1	301.6	88.7	68.8	52.8	41.1	35.0	30.7	29.4	29.9
47.5°	2247.8	1762.7	233.6	79.6	59.7	44.6	35.0	30.3	27.3	25.5	25.5
50°	2495.3	1859.7	177.4	69.2	52.8	37.6	30.7	27.3	24.7	23.8	23.4
52.5°	2702.1	1887.8	135.9	60.1	46.3	32.5	27.3	24.7	22.5	21.2	21.2
55°	2878.2	1863.1	106.4	50.6	38.9	28.1	24.2	22.1	19.5	18.2	17.7
57.5°	2981.2	1783.9	81.3	42.0	31.6	23.4	21.2	18.6	15.6	13.4	13.4
60°	3033.1	1668.9	62.3	34.6	24.2	18.6	17.3	13.8	10.8	9.1	8.7
62.5°	2970.8	1516.1	47.2	27.3	18.2	13.8	11.7	10.0	6.9	5.2	5.2
63°	2932.3	1472.0	45.4	26.0	16.9	13.0	10.8	9.1	6.1	4.8	4.3
65°	2673.1	1279.4	37.2	20.8	13.4	9.1	7.4	6.5	4.3	2.2	1.7
67.5°	2122.7	978.7	29.4	15.6	9.5	6.5	4.3	3.9	1.3	0.0	0.0
70°	1435.2	632.1	22.9	11.2	6.5	3.9	2.2	1.7	0.4	0.0	0.0
72.5°	748.5	324.1	17.7	8.2	3.9	2.6	1.3	0.4	0.0	0.0	0.0
75°	264.8	110.3	13.0	5.2	2.6	1.3	0.4	0.0	0.0	0.0	0.0
77.5°	80.0	41.1	8.2	3.9	1.7	0.9	0.0	0.0	0.0	0.0	0.0
80°	28.1	15.1	4.8	2.6	1.3	0.4	0.0	0.0	0.0	0.0	0.0
82.5°	13.8	7.4	3.0	2.2	1.3	0.4	0.0	0.0	0.0	0.0	0.0
85°	7.8	4.8	2.6	2.2	1.3	0.9	0.0	0.0	0.0	0.0	0.0
87.5°	5.6	3.5	2.6	2.2	1.7	0.9	0.4	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)