

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: P450497

Luminaire Tested: **GALN-SA1B-740-U-T2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450497  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1B-740-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4304 lumens  
Efficiency: N/A  
Efficacy: 97.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B0 - U0 - G1

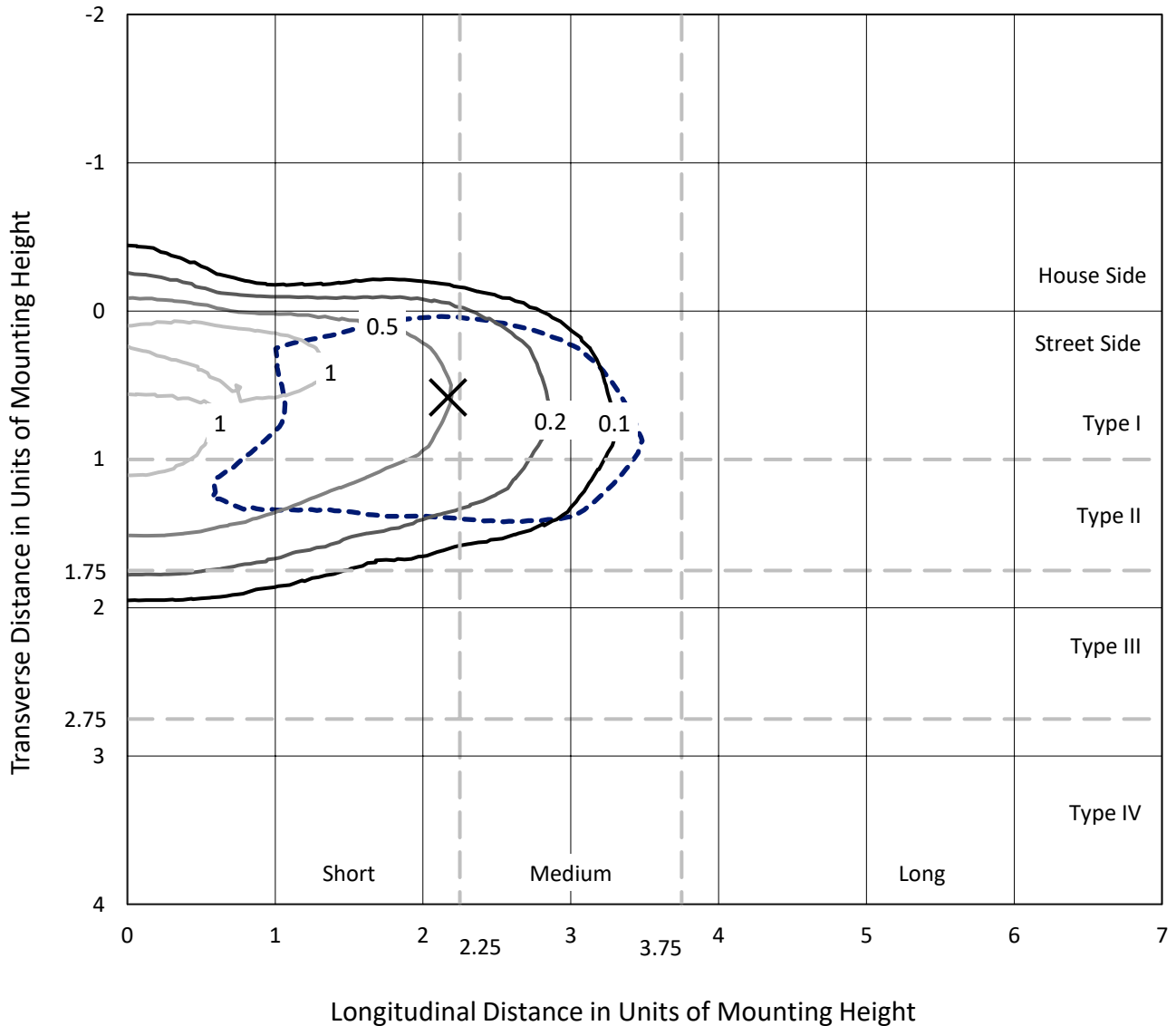
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

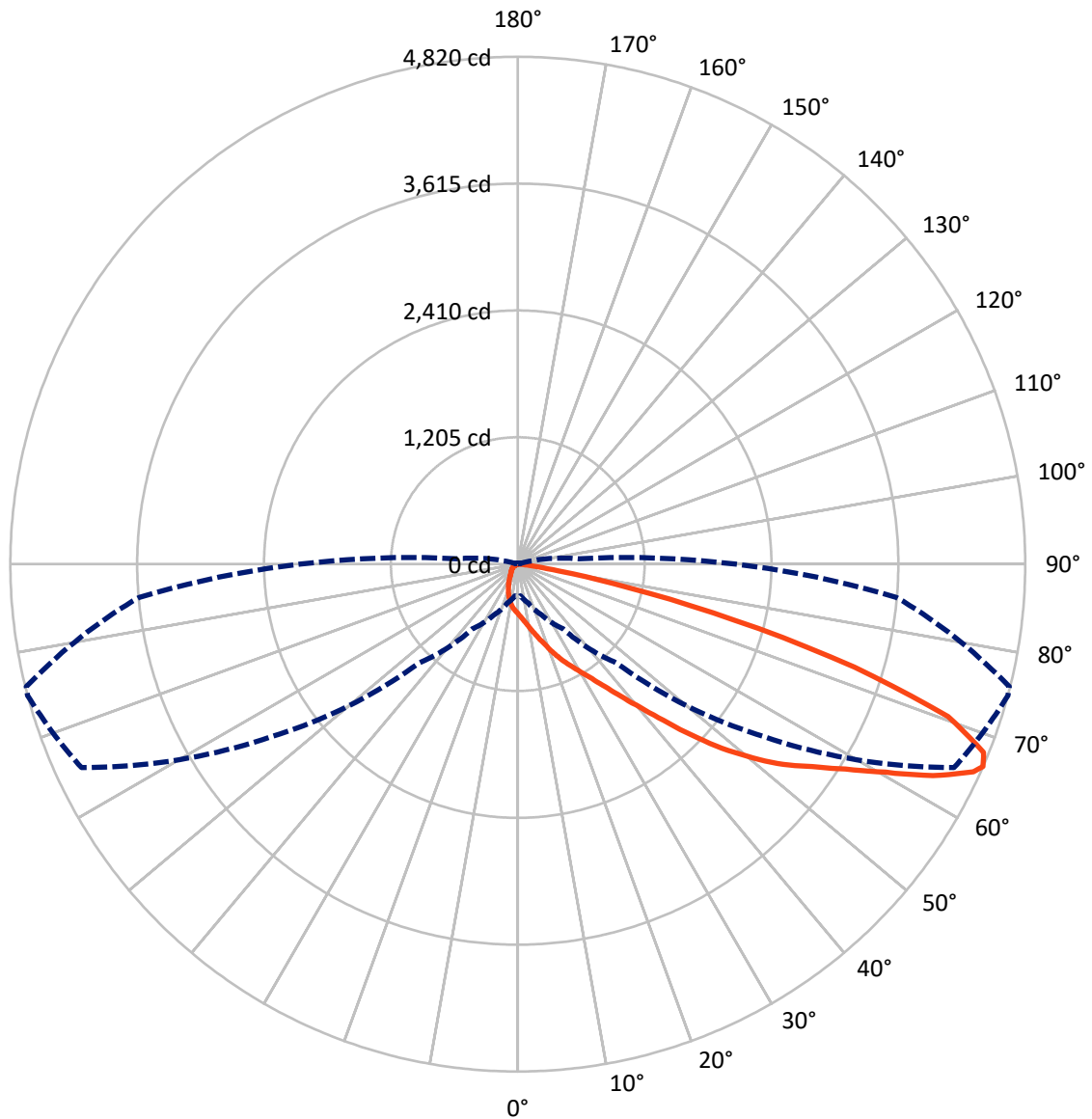
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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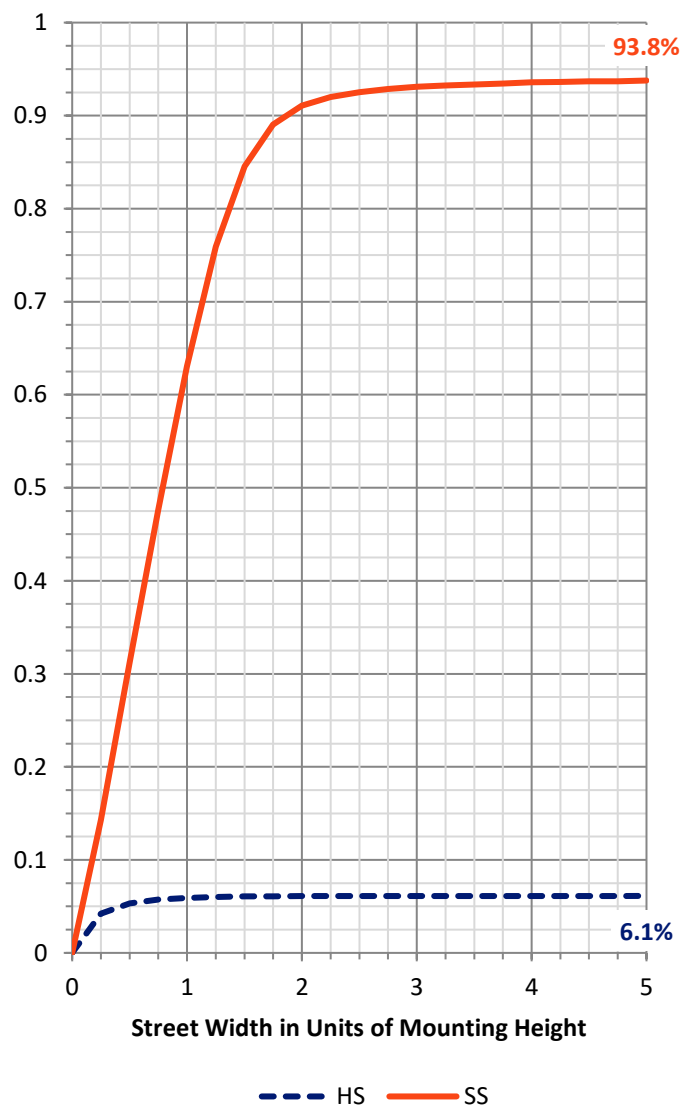
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	265.7	0.0	265.7
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	4038.3	0.0	4038.3
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	4304.0	0.0	4304.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	45.4	1.1
10°-20°	133.6	3.1
20°-30°	230.7	5.4
30°-40°	416.2	9.7
40°-50°	751.8	17.5
50°-60°	1172.1	27.2
60°-70°	1113.4	25.9
70°-80°	417.3	9.7
80°-90°	23.5	0.5
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°	4304.0	100.0
0°-180°	4304.0	100.0

**Coefficient of Utilization**



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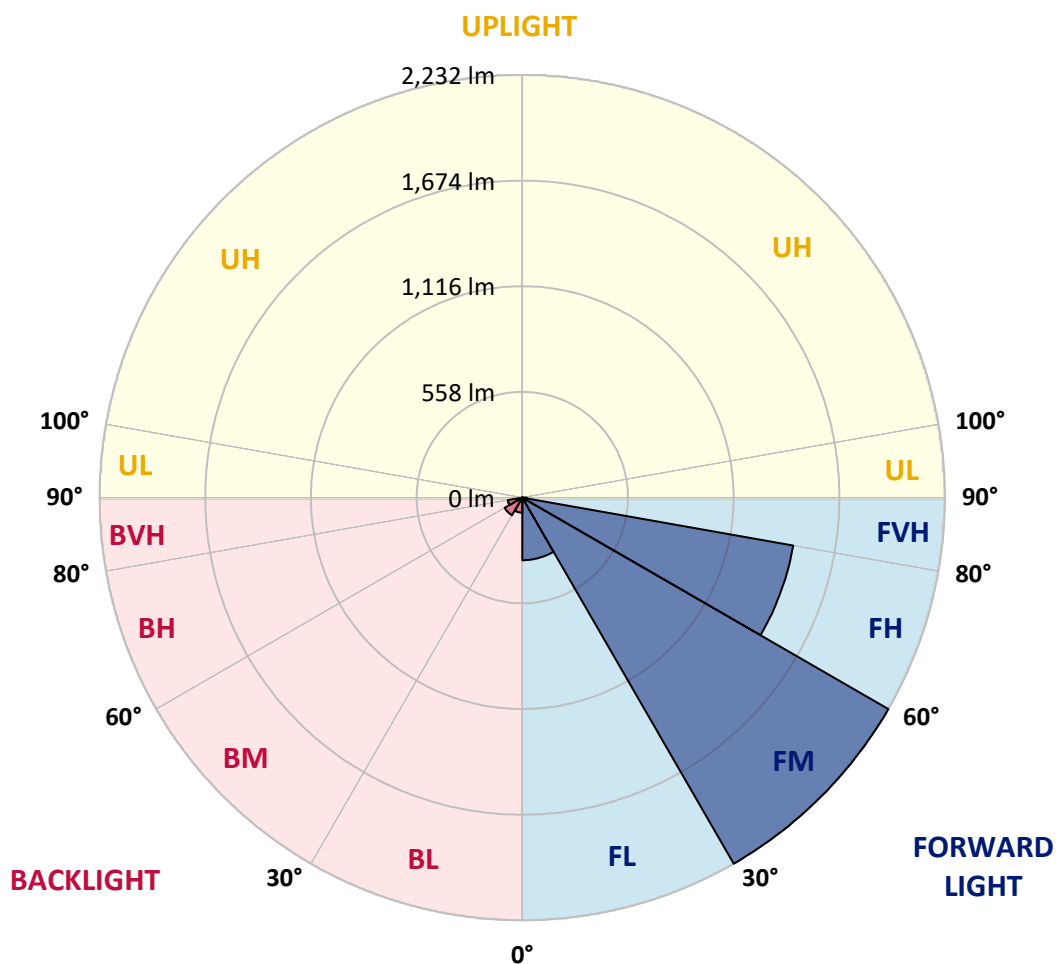
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	330.4	7.7			
FM (30°-60°)	2232.5	51.9			
FH (60°-80°)	1453.1	33.8			G1/1800
FVH (80°-90°)	22.3	0.5			G1/100
BL (0°-30°)	79.4	1.8	B0/110		
BM (30°-60°)	107.6	2.5	B0/220		
BH (60°-80°)	77.6	1.8	B0/110		G0/110
BVH (80°-90°)	1.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	470.7	470.7	470.7	470.7	470.7	470.7	470.7	470.7	470.7	470.7	470.7
2.5°	562.3	555.3	557.6	554.4	547.1	536.2	526.7	513.0	499.3	497.1	481.8
5°	636.5	634.6	632.0	622.8	617.7	601.2	581.4	557.9	529.6	524.5	496.8
7.5°	687.1	686.1	687.4	682.6	678.2	663.2	642.2	610.1	566.2	563.3	517.1
10°	703.6	706.2	711.0	718.6	725.6	720.8	704.9	664.8	613.6	605.3	540.4
12.5°	694.1	697.0	708.4	728.8	751.4	764.4	758.1	728.8	663.9	657.2	566.5
15°	669.6	673.1	689.3	720.8	761.2	798.2	814.1	793.1	722.4	711.6	598.0
17.5°	633.3	638.4	661.6	703.3	758.7	822.3	867.2	860.2	784.8	774.6	632.4
20°	605.9	609.8	629.5	677.2	747.9	835.7	917.8	937.6	861.8	844.3	672.8
22.5°	624.1	625.4	632.0	660.7	728.5	839.2	962.4	1018.1	943.6	928.0	714.8
25°	712.9	700.1	693.5	687.1	724.3	836.0	1002.8	1102.1	1025.1	1008.5	756.5
27.5°	852.9	847.2	813.4	768.2	759.7	840.2	1029.5	1181.6	1101.8	1083.9	797.2
30°	1005.3	995.5	974.8	908.6	842.1	869.4	1048.9	1259.0	1192.5	1168.9	834.4
32.5°	1145.4	1151.7	1120.9	1052.8	975.7	931.8	1074.1	1343.3	1296.5	1267.3	877.7
35°	1308.6	1321.4	1273.9	1208.7	1118.6	1044.5	1123.1	1438.5	1428.6	1391.7	944.6
37.5°	1474.4	1482.1	1453.1	1361.5	1280.3	1187.7	1215.4	1555.9	1591.2	1559.7	1024.4
40°	1613.8	1624.3	1603.0	1521.5	1435.0	1353.5	1349.4	1683.8	1784.7	1752.3	1143.5
42.5°	1720.4	1728.4	1729.0	1671.4	1593.5	1556.5	1520.3	1847.1	2027.2	1989.7	1281.6
45°	1855.1	1866.5	1859.8	1820.7	1762.4	1755.8	1737.0	2044.4	2317.5	2270.0	1460.7
47.5°	2063.2	2070.8	2054.3	2008.1	1948.9	1959.4	1948.3	2265.6	2613.4	2572.7	1646.3
50°	2207.7	2220.4	2243.9	2262.4	2219.4	2180.6	2147.5	2472.1	2894.4	2857.8	1836.0
52.5°	2206.1	2227.1	2301.6	2394.5	2488.4	2476.6	2381.4	2700.3	3162.7	3117.5	2014.2
55°	2057.5	2098.2	2207.7	2372.5	2632.5	2762.1	2718.8	2964.5	3394.4	3363.9	2220.7
57.5°	1750.7	1775.5	1927.6	2158.0	2552.0	2896.4	3109.6	3322.5	3672.2	3657.9	2541.5
60°	1177.5	1188.6	1384.4	1669.2	2172.7	2762.4	3396.0	3755.6	4014.3	4007.3	2916.1
62.5°	674.7	679.5	821.4	1061.7	1546.0	2341.0	3420.2	4289.9	4424.6	4428.4	3349.5
65°	363.1	365.7	480.2	623.1	940.7	1668.6	3075.5	4582.7	4756.2	4763.5	3618.1
66°	313.5	301.4	382.2	531.2	748.5	1328.0	2857.5	4572.2	4819.8	4811.9	3608.6
67.5°	238.4	249.2	305.2	408.3	554.7	944.2	2359.2	4368.9	4771.5	4746.6	3461.9
70°	170.6	175.0	217.4	291.2	377.8	518.1	1507.5	3628.6	4336.7	4303.3	3016.0
72.5°	110.1	114.9	154.0	210.7	273.1	282.9	844.0	2621.7	3343.5	3338.7	2271.3
75°	78.6	83.1	101.8	150.8	205.3	175.0	406.4	1766.9	2125.6	2111.2	1405.1
77.5°	57.0	59.2	68.1	98.7	146.7	125.4	188.4	943.6	1058.2	1108.1	620.9
80°	32.8	34.7	47.4	60.1	99.3	85.6	90.1	378.7	390.5	371.7	194.1
82.5°	16.2	18.5	28.3	41.1	62.1	57.6	41.4	113.9	120.3	117.1	49.0
85°	3.8	4.8	15.9	27.1	30.2	25.8	20.0	33.4	41.4	40.4	18.8
87.5°	0.3	0.6	5.7	4.8	5.1	8.6	7.0	8.6	13.4	12.4	6.7
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°	470.7	470.7	470.7	470.7	470.7	470.7	470.7	470.7	470.7	470.7	470.7
2.5°	474.8	468.8	451.3	434.1	419.8	404.8	391.1	383.2	380.0	376.5	378.1
5°	481.5	466.9	431.5	401.0	371.1	345.6	325.2	312.2	305.8	304.9	303.3
7.5°	490.4	465.3	410.5	362.8	323.7	295.3	272.1	253.3	247.6	242.5	238.4
10°	501.2	462.4	384.4	322.7	281.0	245.4	214.8	192.5	181.1	177.9	180.1
12.5°	512.7	457.0	357.1	285.8	237.7	192.2	163.9	152.8	149.6	148.3	148.6
15°	524.2	450.3	328.4	250.1	189.4	153.4	140.3	137.5	136.2	135.6	134.9
17.5°	534.7	439.5	296.3	215.5	153.4	131.1	126.3	123.8	121.3	120.3	118.7
20°	547.1	427.1	267.3	176.6	129.8	118.7	113.0	108.2	104.4	101.8	101.5
22.5°	558.8	411.2	237.1	146.4	118.4	106.6	97.4	92.3	87.8	84.7	85.6
25°	565.2	391.8	210.0	127.6	107.9	94.5	84.3	78.0	73.2	71.6	71.3
27.5°	565.2	367.9	183.6	116.8	98.3	83.7	73.2	67.1	64.0	61.7	62.1
30°	560.7	341.5	159.1	108.5	90.1	74.2	64.3	58.9	56.3	54.7	54.4
32.5°	557.2	316.3	138.1	100.6	81.5	65.9	57.3	53.1	50.6	49.0	49.0
35°	562.7	294.7	121.9	92.6	73.5	59.5	51.9	48.1	45.5	44.2	43.9
37.5°	577.0	275.0	109.5	84.0	66.2	54.1	48.1	43.6	41.1	39.5	38.8
40°	612.3	263.8	100.2	76.1	59.2	49.6	43.6	39.5	36.3	34.7	34.4
42.5°	669.0	264.1	91.3	68.7	53.8	45.8	39.8	35.0	31.5	29.9	29.6
45°	754.2	276.2	84.3	61.7	49.0	41.7	35.6	30.6	27.4	25.8	25.8
47.5°	856.4	299.8	78.3	55.7	44.6	37.9	31.5	26.4	23.2	22.0	22.0
50°	967.1	330.3	72.2	49.3	40.7	33.7	27.1	22.9	20.4	19.4	19.4
52.5°	1080.1	367.3	66.2	44.2	36.6	29.3	23.2	20.4	18.1	17.5	17.2
55°	1228.4	414.4	59.8	38.8	32.1	25.1	20.7	17.8	15.3	14.3	14.0
57.5°	1456.6	485.3	52.8	34.1	26.4	21.0	17.8	15.0	12.1	10.5	10.2
60°	1731.9	571.9	45.5	29.9	21.3	17.2	14.3	11.5	8.9	7.0	6.7
62.5°	1989.7	626.9	38.5	25.1	16.9	13.0	10.2	8.6	6.4	4.5	4.1
65°	2103.6	608.5	31.8	20.4	13.4	9.2	6.7	6.0	3.8	1.9	1.6
66°	2065.7	581.1	29.3	18.5	12.1	8.0	5.7	5.1	2.9	1.0	1.0
67.5°	1954.0	516.5	25.5	15.9	10.5	6.4	4.5	3.8	1.6	0.3	0.0
70°	1674.3	417.9	20.0	11.8	7.6	4.5	2.5	1.9	1.0	0.0	0.0
72.5°	1286.0	311.2	15.9	8.9	5.4	2.5	1.3	0.6	1.0	0.0	0.0
75°	788.0	177.9	12.4	6.7	3.5	1.6	1.0	0.0	1.0	0.3	0.0
77.5°	349.8	79.9	8.3	4.5	2.5	1.3	0.6	0.0	0.6	0.3	0.0
80°	88.5	26.1	4.8	3.2	1.9	1.0	0.3	0.0	0.6	0.6	0.3
82.5°	24.2	9.5	3.5	2.5	1.6	1.0	0.3	0.0	0.6	0.6	0.6
85°	9.5	4.5	3.2	2.5	1.9	1.0	0.3	0.0	0.6	0.6	0.6
87.5°	4.5	3.2	3.2	2.9	2.2	1.0	0.3	0.0	0.6	0.3	0.6
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)