

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: P450287

Luminaire Tested: **GALN-SA1A-750-U-SL4-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450287  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1A-750-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 5000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL LIGHT  
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3806 lumens  
Efficiency: N/A  
Efficacy: 115.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B0 - U0 - G1

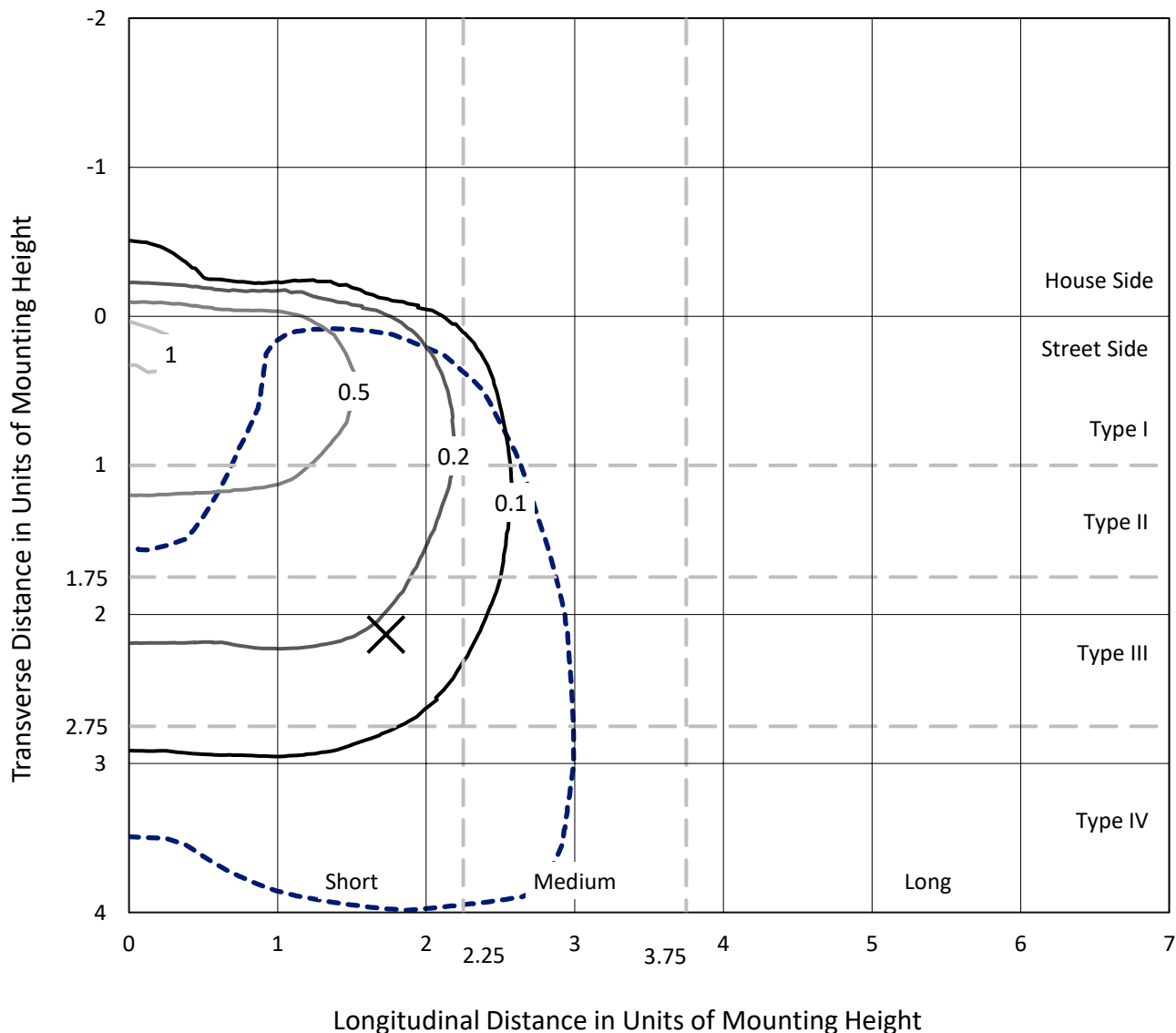
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

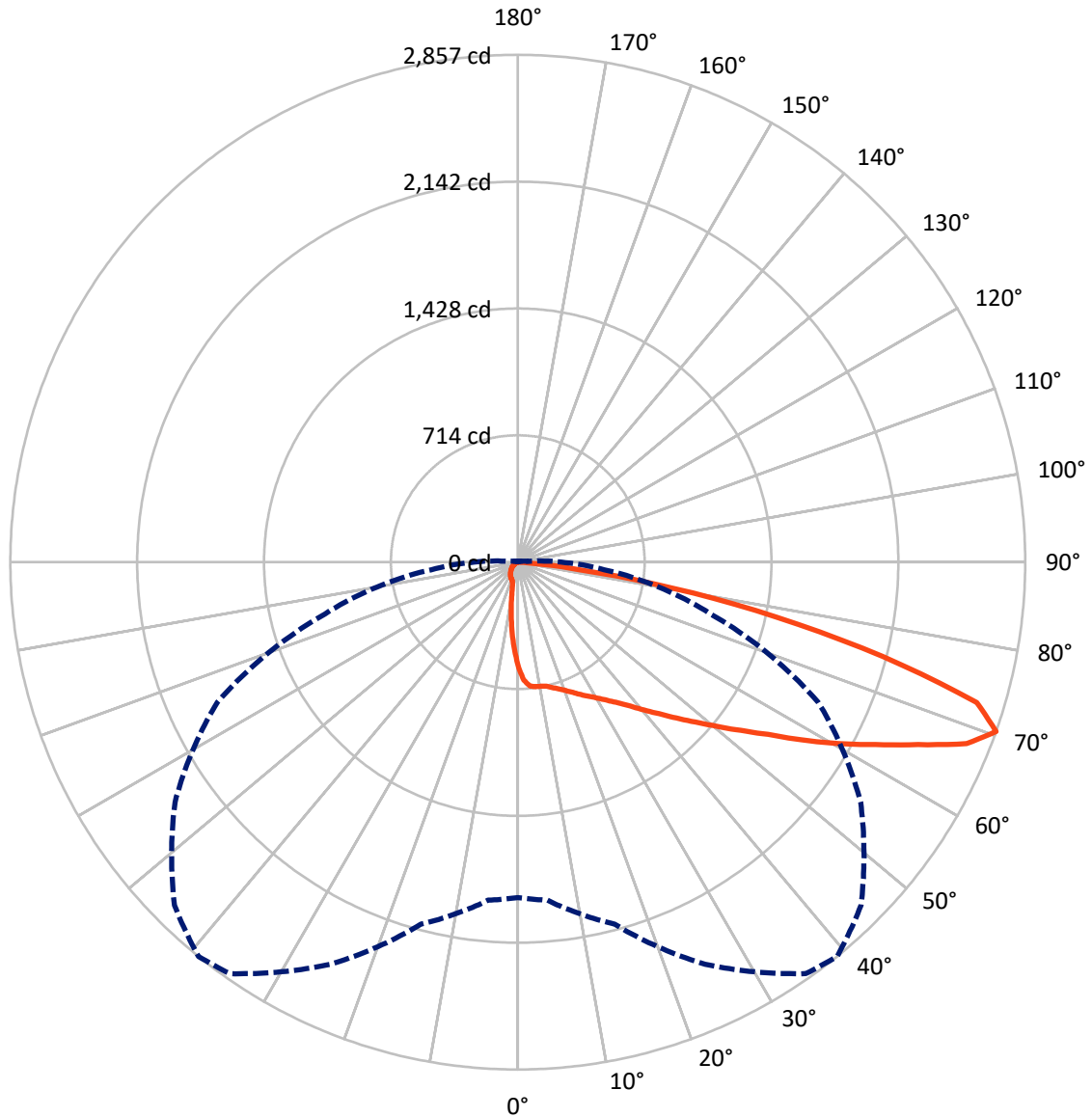
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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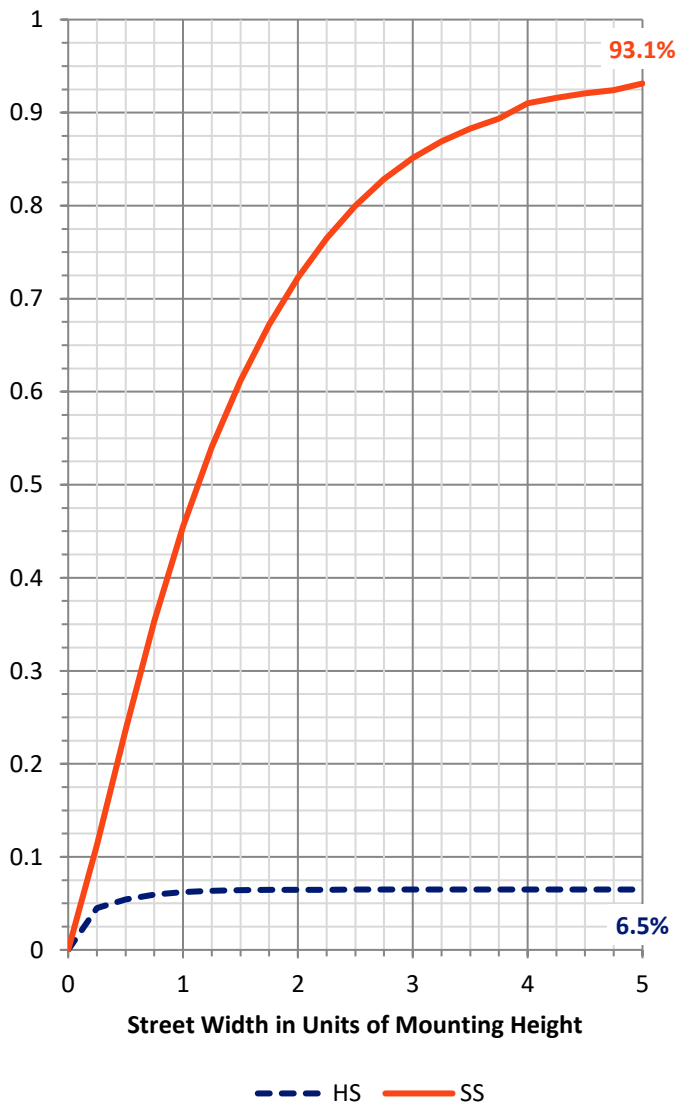
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	248.2	0.0	248.2
	% Fixture	6.5	0.0	6.5
<b>Street Side</b>	Lumens	3557.8	0.0	3557.8
	% Fixture	93.5	0.0	93.5
<b>Total</b>	Lumens	3806.0	0.0	3806.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.7	1.3
10°-20°	131.6	3.5
20°-30°	220.5	5.8
30°-40°	342.0	9.0
40°-50°	542.0	14.2
50°-60°	794.4	20.9
60°-70°	1018.3	26.8
70°-80°	639.9	16.8
80°-90°	66.7	1.8
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°	3806.0	100.0
0°-180°	3806.0	100.0

**Coefficient of Utilization**



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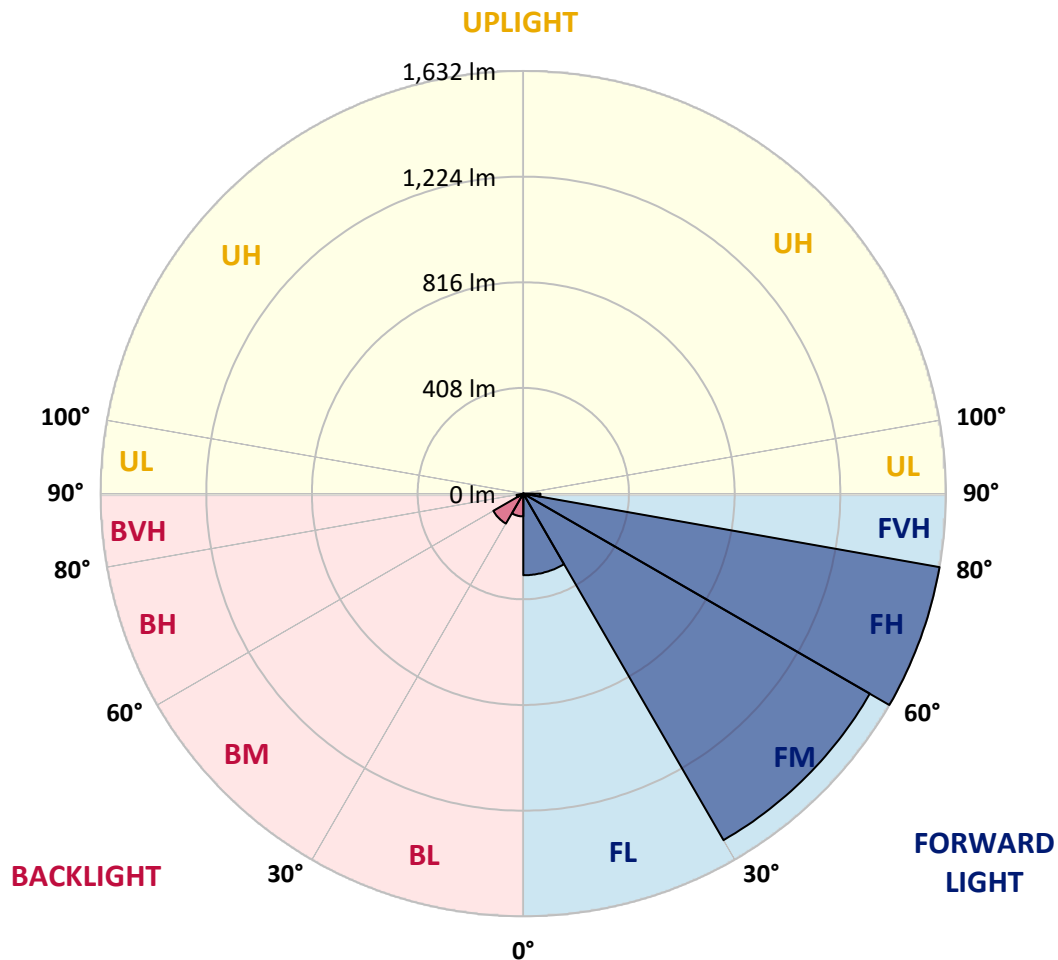
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	314.9	8.3			
FM (30°-60°)	1544.8	40.6			
FH (60°-80°)	1631.9	42.9			G1/1800
FVH (80°-90°)	66.2	1.7			G1/100
BL (0°-30°)	87.9	2.3	B0/110		
BM (30°-60°)	133.6	3.5	B0/220		
BH (60°-80°)	26.2	0.7	B0/110		G0/110
BVH (80°-90°)	0.5	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	593.9	593.9	593.9	593.9	593.9	593.9	593.9	593.9	593.9	593.9	593.9
2.5°	686.2	683.9	680.8	677.2	667.0	665.2	659.1	646.0	630.4	617.7	600.0
5°	718.7	720.0	717.7	711.3	703.8	699.5	691.8	671.6	651.4	625.6	596.7
7.5°	726.1	728.7	725.8	719.7	712.5	707.9	701.8	684.4	660.9	631.5	591.8
10°	725.3	728.4	726.6	721.0	715.1	710.7	704.1	690.3	671.4	640.4	593.4
12.5°	724.0	728.1	727.9	725.1	720.2	716.9	712.8	700.5	682.9	653.5	601.8
15°	720.5	725.6	730.2	732.5	732.7	732.7	727.6	714.6	697.7	670.6	612.8
17.5°	722.0	727.9	739.4	746.0	750.6	750.1	744.8	730.7	712.0	688.2	624.3
20°	731.5	739.4	755.5	768.8	773.4	771.9	764.7	748.3	727.1	703.3	635.6
22.5°	754.7	761.9	782.1	797.7	801.0	796.9	786.7	764.5	745.3	719.7	649.1
25°	789.5	798.0	816.6	828.4	828.4	826.1	811.8	785.7	765.7	742.5	666.8
27.5°	831.7	838.9	857.3	867.8	861.6	855.0	840.7	809.2	790.0	771.1	688.0
30°	874.4	879.0	898.5	903.1	896.7	888.2	872.9	841.4	824.6	810.0	718.7
32.5°	914.8	924.8	940.9	939.9	931.2	927.1	913.1	879.5	870.1	868.5	761.6
35°	955.3	962.9	977.2	980.8	973.2	972.4	962.2	937.3	937.6	947.6	828.7
37.5°	990.0	996.9	1013.8	1021.7	1023.3	1027.1	1023.0	1006.7	1029.9	1057.3	917.4
40°	1019.2	1028.9	1050.4	1064.2	1080.1	1094.1	1094.9	1098.5	1145.3	1192.3	1033.3
42.5°	1042.0	1055.5	1086.7	1112.3	1148.6	1166.5	1180.8	1200.5	1279.3	1349.6	1169.8
45°	1071.6	1087.2	1126.1	1166.2	1223.0	1252.4	1272.4	1325.1	1436.8	1532.7	1310.0
47.5°	1120.7	1128.9	1168.6	1227.1	1301.8	1343.7	1382.6	1462.4	1605.9	1691.8	1426.6
50°	1183.9	1189.3	1219.2	1300.5	1397.2	1452.4	1523.3	1617.1	1781.3	1823.8	1492.6
52.5°	1253.7	1255.5	1278.0	1381.3	1504.1	1573.7	1653.0	1768.8	1924.3	1917.9	1536.3
55°	1334.8	1332.2	1351.4	1469.1	1630.7	1710.2	1802.6	1924.1	2048.4	1984.7	1561.4
57.5°	1427.6	1420.7	1439.4	1585.4	1792.9	1888.0	1981.9	2058.1	2144.5	2040.7	1573.4
60°	1524.8	1511.0	1533.3	1716.1	1983.9	2074.2	2152.2	2172.7	2245.8	2085.2	1552.7
62.5°	1602.3	1602.6	1644.0	1855.3	2180.3	2259.4	2300.8	2319.2	2333.0	2075.5	1443.7
65°	1723.3	1727.4	1793.6	2048.4	2407.7	2476.2	2504.6	2444.8	2336.8	1954.7	1280.1
67.5°	1848.1	1861.1	1982.4	2314.3	2670.4	2725.6	2689.0	2469.1	2232.5	1679.3	970.6
70°	1888.8	1910.2	2110.0	2497.5	2827.9	2856.5	2732.8	2355.8	1866.3	1122.8	488.5
72.5°	1730.7	1765.5	2036.6	2430.7	2727.4	2702.6	2445.0	1975.7	1186.5	426.3	149.1
75°	1220.5	1235.8	1692.6	2016.4	2193.6	2123.3	1859.9	1273.7	488.0	119.7	51.2
77.5°	630.2	622.8	1006.7	1337.9	1564.5	1491.6	1217.9	659.3	184.9	49.9	31.7
80°	325.8	331.2	435.6	701.0	955.0	878.8	649.4	305.6	98.5	27.6	24.3
82.5°	182.6	171.4	250.4	306.1	446.6	350.1	249.1	216.4	43.0	16.6	23.0
85°	33.2	34.8	137.3	165.5	155.0	98.5	80.3	144.5	12.5	9.2	16.1
87.5°	0.5	0.5	26.6	47.6	30.2	13.8	25.3	20.7	2.6	3.6	2.8
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°	593.9	593.9	593.9	593.9	593.9	593.9	593.9	593.9	593.9	593.9	593.9
2.5°	591.1	581.3	563.2	545.3	522.5	503.8	491.3	478.3	465.0	466.0	469.1
5°	580.8	563.9	528.1	490.3	454.0	421.2	389.0	360.1	348.3	337.6	338.1
7.5°	570.6	546.8	494.4	435.0	380.1	324.3	283.9	250.6	233.0	219.7	215.9
10°	566.0	534.5	463.4	381.8	303.8	243.0	191.1	163.9	143.0	136.3	138.1
12.5°	568.0	528.4	435.6	333.8	240.9	169.3	133.0	119.2	114.6	113.8	113.3
15°	571.9	524.0	408.2	280.6	177.0	125.8	111.8	109.2	108.7	108.2	108.4
17.5°	577.0	520.2	379.0	230.7	135.8	110.0	105.9	104.6	104.3	104.3	104.3
20°	582.1	515.9	346.6	186.2	113.3	103.8	101.3	100.5	100.3	100.3	100.0
22.5°	588.0	512.0	313.6	146.3	104.3	99.5	97.2	96.7	96.4	96.2	96.2
25°	596.4	507.2	278.5	119.7	98.7	95.4	93.1	92.6	92.3	91.3	91.6
27.5°	607.7	503.6	242.5	103.3	93.6	90.3	88.7	88.0	87.5	86.7	87.0
30°	623.0	500.5	204.1	94.4	87.7	84.9	83.4	82.9	82.4	81.6	81.6
32.5°	649.6	501.8	163.7	87.2	82.4	79.0	77.5	77.0	76.5	75.7	75.7
35°	689.5	509.2	130.9	81.1	76.0	72.6	71.1	71.1	70.3	69.3	69.1
37.5°	754.7	528.1	105.1	75.2	69.8	66.8	65.0	64.5	63.7	62.1	61.9
40°	831.7	557.5	88.5	69.3	64.2	61.1	59.6	58.1	56.0	54.5	54.2
42.5°	928.4	587.7	76.7	63.4	58.8	56.0	54.2	51.7	48.6	46.5	46.3
45°	1029.2	615.4	68.8	58.1	53.7	51.4	49.4	45.3	41.4	38.9	38.6
47.5°	1104.4	620.5	62.4	52.9	49.4	47.1	44.2	39.1	34.0	31.7	30.9
50°	1139.9	595.7	55.8	47.8	45.0	42.5	38.9	33.0	27.4	24.6	24.0
52.5°	1152.4	552.7	50.4	43.2	40.7	37.6	33.2	26.6	21.5	18.7	18.4
55°	1147.3	498.5	45.5	38.9	35.6	32.0	27.6	21.2	15.9	13.6	13.0
57.5°	1120.5	429.4	40.7	34.5	30.4	26.9	22.0	15.9	10.7	8.7	8.4
60°	1048.1	335.3	35.8	29.7	25.8	22.0	17.4	11.3	6.6	4.9	4.9
62.5°	925.8	248.9	31.2	24.8	21.7	17.6	12.3	7.2	3.6	2.6	2.3
65°	773.7	183.6	26.1	21.0	18.2	13.8	8.7	4.3	1.8	0.8	0.5
67.5°	539.9	113.3	21.7	17.1	14.8	10.0	5.4	1.8	0.8	0.0	0.0
70°	245.3	54.0	16.6	13.0	11.3	7.2	2.8	1.0	0.5	0.0	0.0
72.5°	76.2	28.4	11.8	9.5	7.7	4.6	1.5	0.8	0.5	0.0	0.0
75°	35.3	18.2	7.4	5.1	4.3	2.3	1.0	0.5	0.3	0.0	0.0
77.5°	26.3	14.1	4.3	2.8	2.3	1.5	0.8	0.5	0.3	0.0	0.0
80°	23.0	7.2	2.6	1.8	1.3	1.0	0.5	0.3	0.0	0.0	0.0
82.5°	20.7	3.6	1.5	1.0	0.8	0.5	0.3	0.3	0.0	0.0	0.0
85°	11.3	2.0	1.0	0.8	0.5	0.3	0.3	0.0	0.0	0.0	0.0
87.5°	2.0	1.0	0.8	0.5	0.5	0.3	0.3	0.3	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)