

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: P458567

Luminaire Tested: **GALN-SA1B-735-U-T4FT-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458567  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA1B-735-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD  
THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3862 lumens  
Efficiency: N/A  
Efficacy: 87.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1

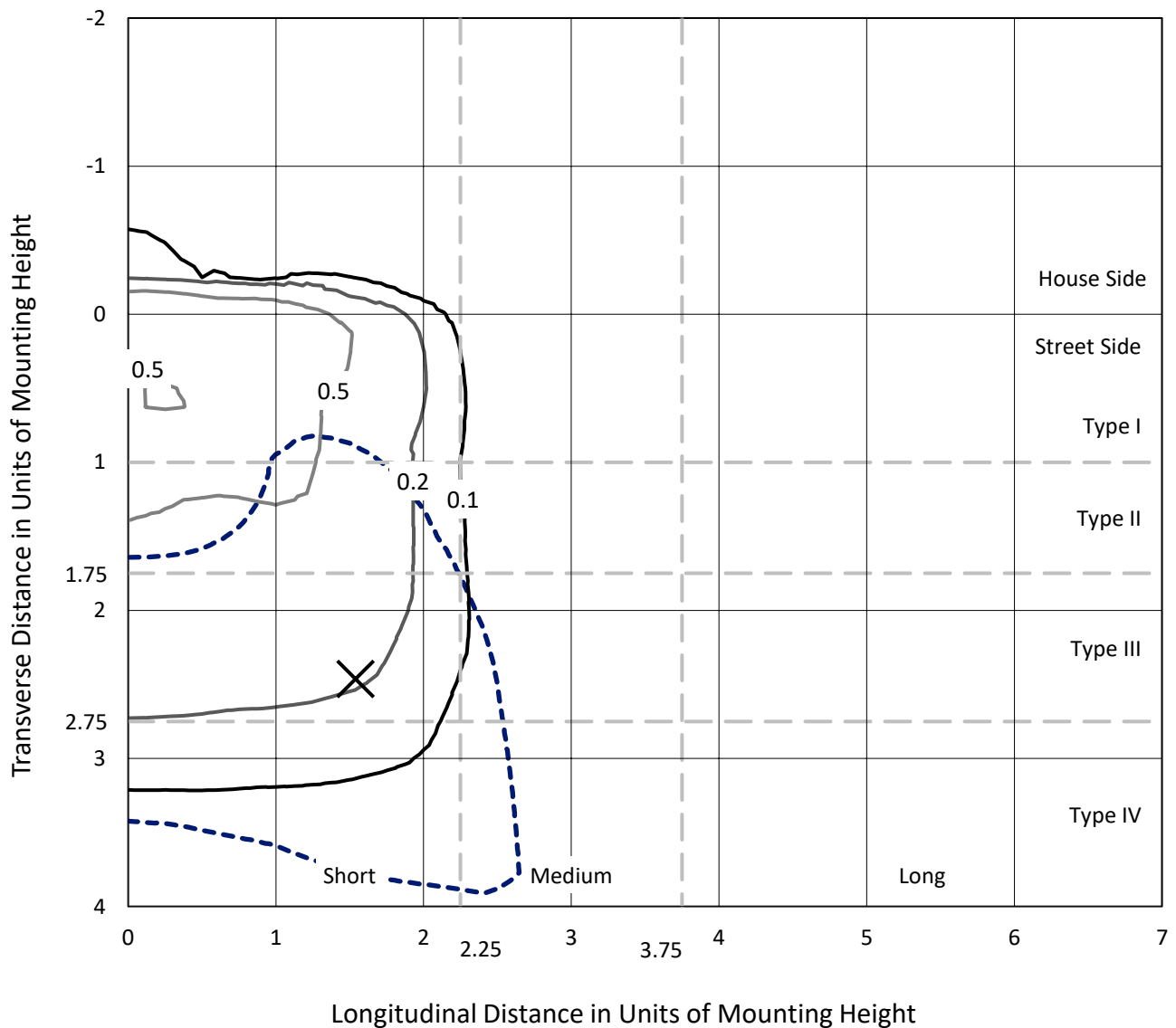
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

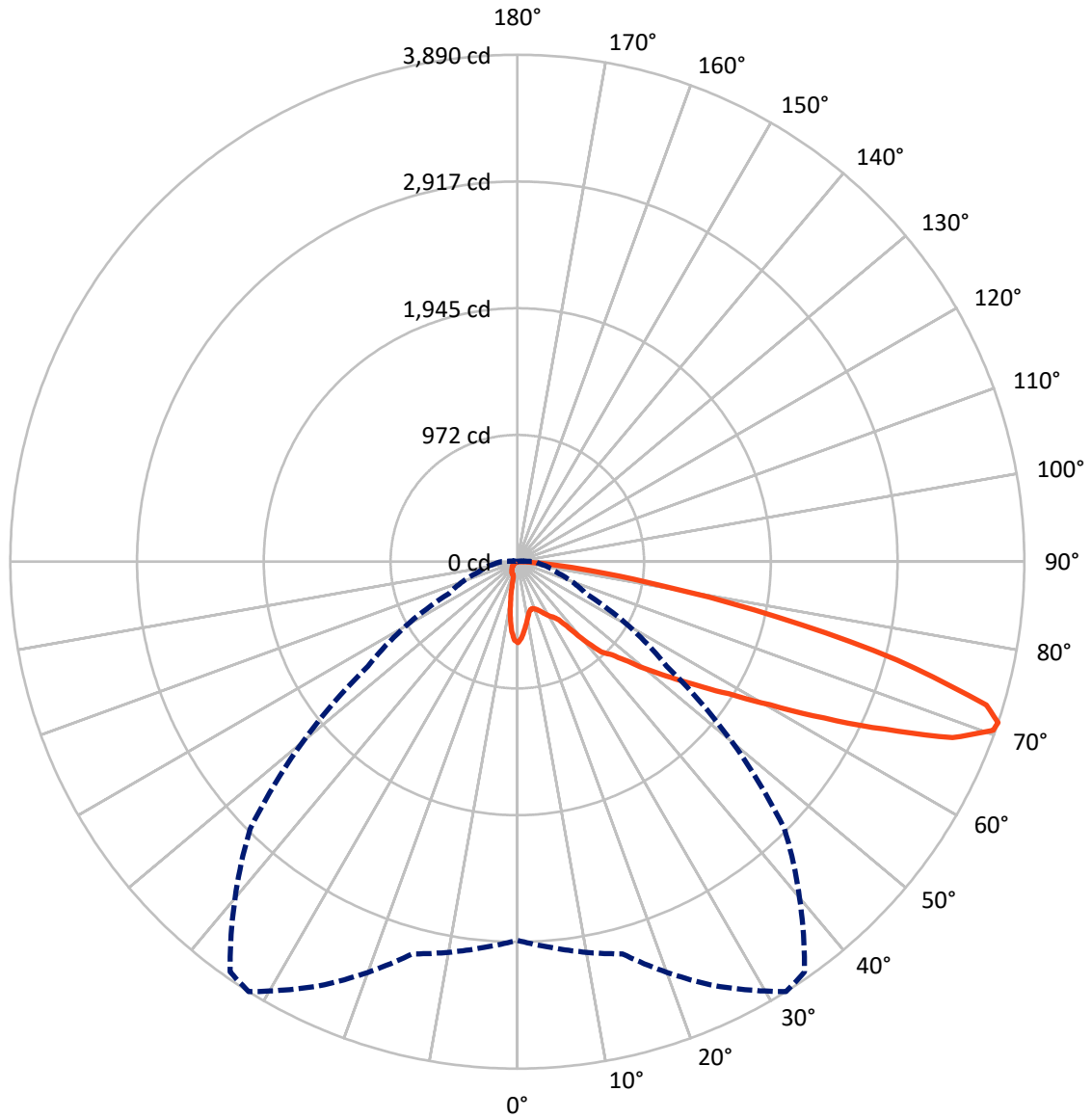
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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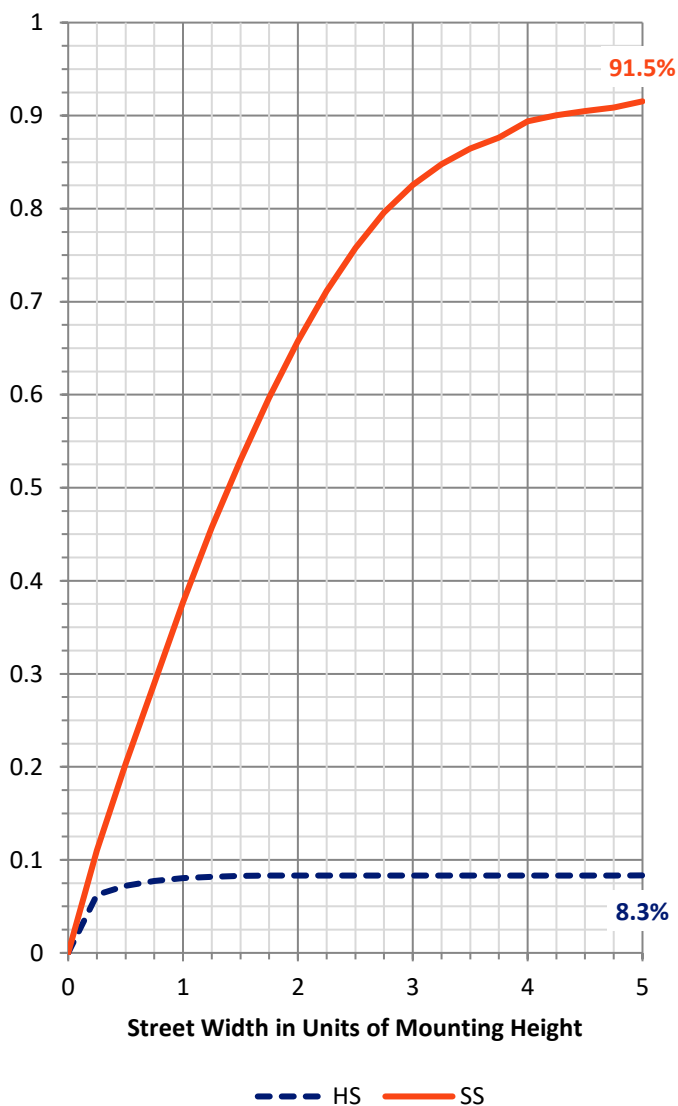
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	323.5	0.0	323.5
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	3538.5	0.0	3538.5
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	3862.0	0.0	3862.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.5	1.3
10°-20°	109.6	2.8
20°-30°	170.5	4.4
30°-40°	284.1	7.4
40°-50°	528.4	13.7
50°-60°	848.4	22.0
60°-70°	1141.1	29.5
70°-80°	677.1	17.5
80°-90°	52.3	1.4
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°	3862.0	100.0
0°-180°	3862.0	100.0



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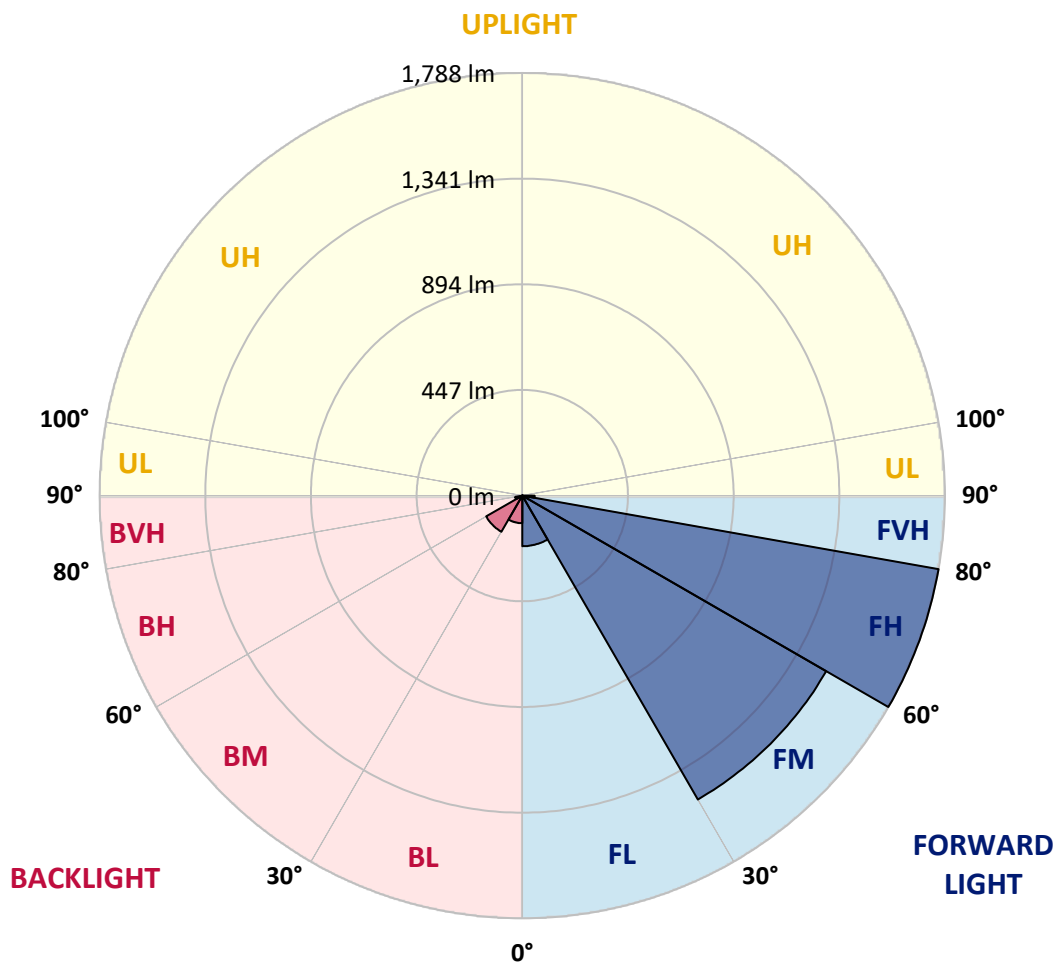
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	214.1	5.5			
FM	(30°-60°)	1484.4	38.4			
FH	(60°-80°)	1787.9	46.3			G1/1800
FVH	(80°-90°)	52.1	1.3			G1/100
BL	(0°-30°)	116.6	3.0	B1/500		
BM	(30°-60°)	176.5	4.6	B0/220		
BH	(60°-80°)	30.3	0.8	B0/110		G0/110
BVH	(80°-90°)	0.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	621.1	621.1	621.1	621.1	621.1	621.1	621.1	621.1	621.1	621.1	621.1
2.5°	576.0	581.9	581.0	583.1	588.2	590.2	595.9	602.1	610.7	616.6	620.5
5°	515.8	520.3	520.9	531.2	536.3	541.9	558.5	576.6	596.8	612.8	623.4
7.5°	451.5	453.9	458.6	472.3	485.0	490.6	515.8	547.3	579.0	608.9	628.2
10°	398.4	401.1	409.7	424.2	436.1	443.5	478.5	517.9	562.4	606.8	635.0
12.5°	368.2	369.7	372.9	386.0	401.1	409.1	446.8	491.8	549.0	607.7	646.6
15°	366.1	365.5	361.7	367.0	380.6	388.9	425.7	474.0	537.2	610.7	660.2
17.5°	377.1	375.6	366.4	366.4	377.7	384.5	416.8	464.5	531.2	617.5	679.5
20°	394.0	391.6	376.5	375.3	386.3	393.4	422.1	465.1	532.4	630.3	705.3
22.5°	415.3	412.7	389.8	390.4	402.3	409.4	437.6	475.8	539.8	646.0	732.8
25°	443.2	440.2	413.3	412.1	424.5	430.7	460.4	494.8	550.2	665.5	769.0
27.5°	480.3	474.0	441.7	439.9	453.3	461.3	488.0	520.3	568.6	692.5	817.6
30°	510.8	504.0	473.1	468.4	482.6	488.9	516.4	554.7	604.8	739.7	884.9
32.5°	550.8	540.7	504.6	492.1	507.2	515.2	557.6	618.7	658.4	789.5	965.0
35°	640.9	634.7	590.5	547.0	546.1	556.1	618.4	683.3	713.6	867.1	1074.1
37.5°	769.9	765.4	718.6	660.2	643.3	638.6	692.2	754.5	801.6	973.8	1200.9
40°	919.6	909.2	866.2	816.7	794.8	780.9	779.4	860.3	916.6	1118.8	1333.2
42.5°	1026.9	1007.9	955.8	952.2	947.5	932.9	890.8	1015.1	1065.2	1274.7	1474.6
45°	1139.6	1110.8	1033.1	1019.8	1018.0	1017.1	1059.2	1198.3	1227.0	1443.7	1619.8
47.5°	1227.0	1204.2	1140.5	1134.5	1141.9	1162.1	1281.9	1392.7	1386.8	1594.3	1741.7
50°	1343.5	1326.3	1255.5	1266.7	1305.0	1337.9	1533.0	1604.7	1518.1	1712.9	1830.3
52.5°	1481.1	1449.4	1383.5	1414.1	1472.8	1527.6	1799.5	1790.3	1610.3	1802.1	1896.4
55°	1600.3	1577.7	1555.2	1586.9	1674.7	1743.1	2040.2	1929.3	1677.3	1873.9	1925.5
57.5°	1801.8	1796.5	1773.4	1805.7	1912.1	1983.3	2255.7	2037.2	1720.3	1911.2	1891.4
60°	2100.1	2091.5	2048.5	2089.7	2228.4	2340.2	2454.3	2134.2	1730.1	1896.7	1793.2
62.5°	2458.8	2429.4	2392.7	2453.4	2643.8	2693.0	2641.4	2191.7	1693.6	1781.1	1556.7
65°	2793.8	2763.5	2764.4	2892.5	3099.7	3133.2	2859.6	2183.1	1586.9	1491.5	1148.2
67.5°	3050.2	3045.2	3081.3	3331.2	3602.2	3579.1	3054.7	2054.4	1270.6	966.7	610.1
70°	3063.3	3073.0	3176.8	3598.6	3873.8	3837.0	3038.1	1669.9	792.1	444.7	240.4
71°	2905.5	2971.4	3114.8	3590.3	3889.8	3842.0	2898.1	1398.7	581.0	310.1	173.4
72.5°	2476.0	2510.7	2820.8	3379.0	3763.2	3661.2	2543.3	980.4	372.0	189.7	99.6
75°	1363.7	1449.1	1889.0	2650.9	3009.9	2920.4	1657.5	465.7	185.6	103.8	41.2
77.5°	649.2	632.6	921.7	1576.5	2040.8	2036.0	835.1	206.9	108.2	70.3	20.8
80°	185.6	208.7	352.8	749.4	1133.0	1145.5	320.8	99.9	75.0	54.8	10.7
82.5°	56.0	57.2	129.6	331.4	563.6	531.2	120.4	51.0	54.0	43.6	6.2
85°	9.8	12.2	38.2	116.8	214.9	163.0	30.2	24.3	35.6	28.8	3.6
87.5°	0.6	0.9	12.7	13.3	19.0	11.0	5.3	3.6	7.7	7.7	2.1
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°	621.1	621.1	621.1	621.1	621.1	621.1	621.1	621.1	621.1	621.1	621.1
2.5°	623.1	624.9	623.7	621.1	616.6	611.3	604.2	598.2	593.2	590.5	593.8
5°	627.0	629.4	623.4	610.1	589.9	568.0	543.1	523.8	508.7	504.0	502.2
7.5°	632.9	634.4	618.4	588.8	546.1	494.2	448.8	410.6	380.9	372.0	359.0
10°	640.6	639.7	609.5	554.4	479.4	401.4	331.1	279.0	239.5	225.3	224.1
12.5°	652.5	647.8	598.2	507.5	399.9	297.9	211.1	165.1	140.2	131.9	130.1
15°	667.3	656.1	580.5	452.7	306.2	192.4	130.1	116.2	112.9	112.4	111.8
17.5°	684.8	667.0	557.0	385.4	215.2	124.8	108.8	108.5	108.8	108.2	107.9
20°	708.5	678.6	529.2	305.6	142.3	105.2	103.8	103.8	104.1	103.8	103.8
22.5°	733.7	692.2	494.8	233.3	107.3	99.9	99.6	100.2	100.8	100.5	100.5
25°	764.8	710.0	449.4	159.8	96.1	95.5	95.8	96.9	98.1	98.4	98.1
27.5°	809.9	731.9	400.8	110.0	88.0	88.6	91.6	94.6	96.3	96.6	96.6
30°	860.6	756.3	337.4	89.2	81.5	81.5	85.1	90.7	94.6	95.2	95.5
32.5°	925.8	784.4	267.1	80.3	75.3	74.7	78.0	84.8	91.9	94.0	94.0
35°	1006.5	817.6	198.6	74.7	70.9	69.4	71.1	76.8	86.0	91.9	92.5
37.5°	1101.0	849.0	145.3	69.7	66.7	64.6	65.8	70.3	77.7	86.6	88.9
40°	1188.5	876.9	108.5	65.5	62.6	61.1	62.0	64.0	70.3	78.6	80.0
42.5°	1283.9	898.6	86.3	61.1	58.4	57.8	57.8	58.7	62.8	67.6	67.9
45°	1379.1	906.3	72.3	55.7	54.0	54.5	54.3	53.7	55.4	54.8	54.8
47.5°	1447.0	897.1	59.9	50.7	50.7	51.6	50.1	48.0	47.1	43.6	43.9
50°	1493.5	863.6	49.2	44.8	47.1	48.3	45.4	42.1	38.8	35.0	34.1
52.5°	1512.8	804.0	40.3	37.1	41.8	43.3	39.7	35.9	30.8	27.6	26.7
55°	1500.4	730.5	33.5	30.2	35.3	37.1	33.5	29.1	23.4	19.9	19.3
57.5°	1445.5	642.7	28.5	24.0	28.2	29.3	27.0	22.2	16.6	13.0	13.0
60°	1350.6	552.0	23.1	19.0	21.0	22.8	20.5	16.0	11.3	8.0	7.4
62.5°	1158.2	448.2	18.7	14.8	14.8	16.3	14.2	11.6	7.1	4.2	3.9
65°	836.3	307.4	14.8	11.0	10.7	10.7	8.9	7.7	4.2	1.8	1.2
67.5°	454.5	173.4	11.9	8.3	7.4	7.1	5.6	4.4	1.8	0.3	0.0
70°	178.8	66.7	9.2	5.6	4.7	4.4	3.0	2.1	1.2	0.0	0.0
71°	121.2	46.0	8.0	4.7	3.9	3.3	2.4	1.8	0.9	0.0	0.0
72.5°	69.4	28.5	6.2	3.6	3.0	2.4	1.8	1.2	0.9	0.0	0.0
75°	30.2	14.5	3.9	2.7	2.1	1.5	1.2	0.9	0.3	0.0	0.0
77.5°	15.4	8.0	2.7	2.1	1.2	0.9	0.6	0.3	0.0	0.0	0.0
80°	8.6	4.2	1.8	1.2	0.9	0.6	0.3	0.3	0.0	0.0	0.0
82.5°	4.7	2.4	0.9	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.0	1.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.5	0.6	0.0	0.0	0.0	0.0	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)