

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: P646754

Luminaire Tested: **GALN-SA1C-835-U-T4FT-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P646754  
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-SA1C-835-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3500K, 1050mA 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: 4011.3 lumens  
Efficiency: N/A  
Efficacy: 70.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

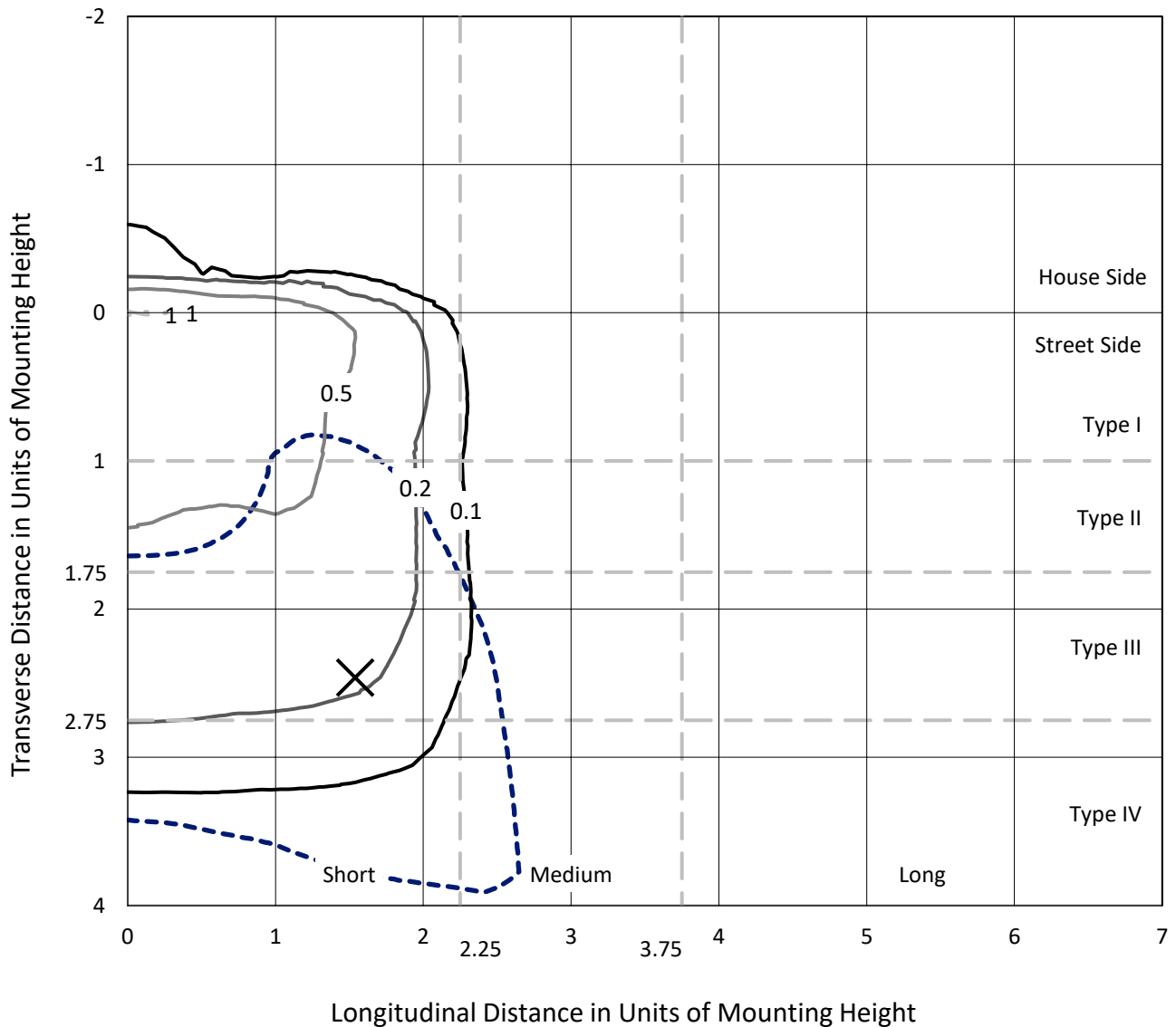
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

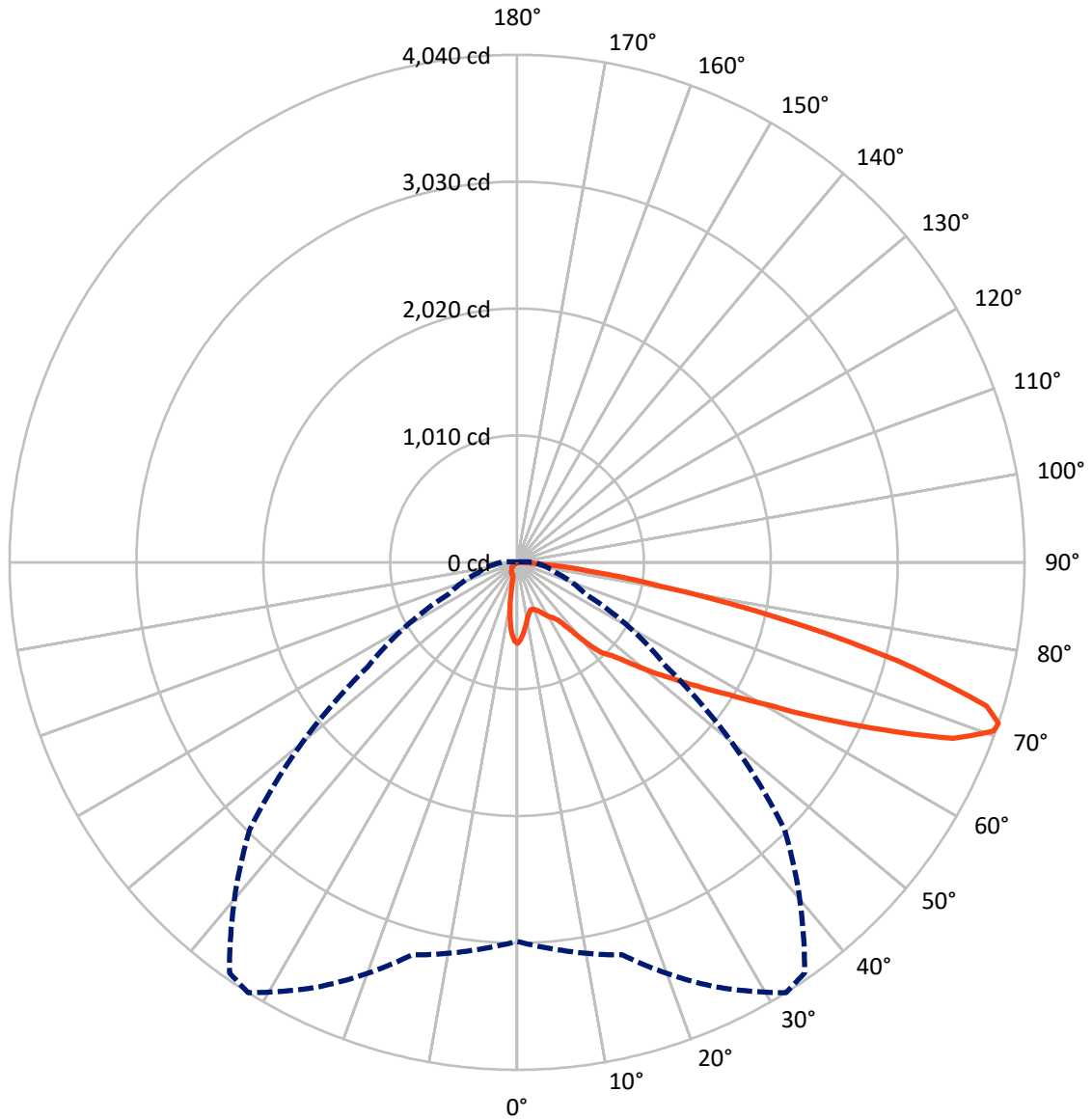
× Max cd  
 - - - 1/2 Max cd



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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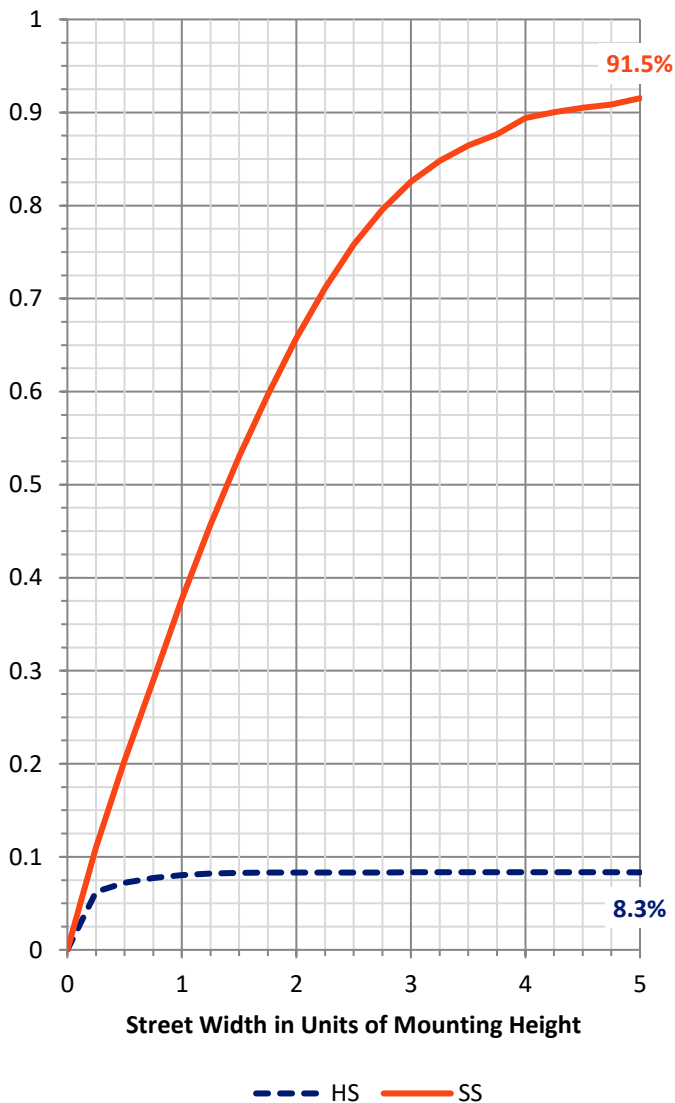
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	336.0	0.0	336.0
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	3675.3	0.0	3675.3
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	4011.3	0.0	4011.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	52.5	1.3
10°-20°	113.8	2.8
20°-30°	177.1	4.4
30°-40°	295.1	7.4
40°-50°	548.8	13.7
50°-60°	881.2	22.0
60°-70°	1185.2	29.5
70°-80°	703.2	17.5
80°-90°	54.4	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°	4011.3	100.0
0°-180°	4011.3	100.0

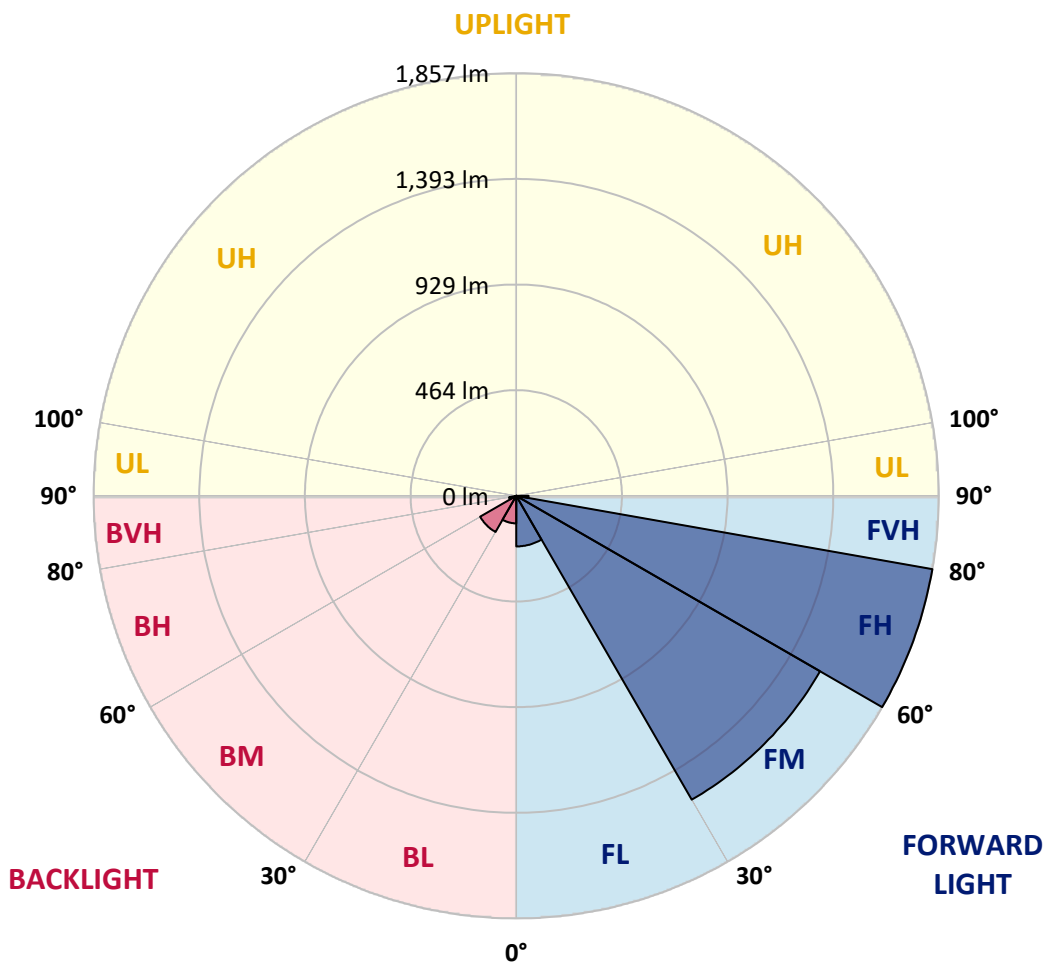


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	222.3	5.5			
FM (30°-60°)	1541.8	38.4			
FH (60°-80°)	1857.0	46.3			G2/5000
FVH (80°-90°)	54.1	1.3			G1/100
BL (0°-30°)	121.1	3.0	B1/500		
BM (30°-60°)	183.3	4.6	B0/220		
BH (60°-80°)	31.4	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-G2**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	645.1	645.1	645.1	645.1	645.1	645.1	645.1	645.1	645.1	645.1	645.1
2.5°	598.3	604.4	603.5	605.7	610.9	613.1	618.9	625.4	634.3	640.5	644.5
5°	535.8	540.4	541.0	551.8	557.0	562.9	580.1	598.9	619.8	636.4	647.5
7.5°	468.9	471.4	476.4	490.5	503.8	509.6	535.8	568.4	601.3	632.4	652.5
10°	413.8	416.6	425.6	440.6	453.0	460.6	497.0	537.9	584.1	630.3	659.5
12.5°	382.4	384.0	387.4	400.9	416.6	424.9	464.0	510.8	570.3	631.3	671.6
15°	380.3	379.7	375.7	381.2	395.3	403.9	442.2	492.4	558.0	634.3	685.8
17.5°	391.7	390.1	380.6	380.6	392.3	399.3	432.9	482.5	551.8	641.4	705.7
20°	409.2	406.8	391.0	389.9	401.2	408.6	438.5	483.1	553.0	654.6	732.5
22.5°	431.4	428.6	404.9	405.5	417.8	425.2	454.5	494.2	560.7	671.0	761.2
25°	460.3	457.3	429.2	428.0	440.9	447.4	478.2	513.9	571.5	691.2	798.7
27.5°	498.8	492.4	458.8	457.0	470.8	479.1	506.8	540.4	590.6	719.3	849.2
30°	530.6	523.4	491.4	486.5	501.3	507.8	536.4	576.1	628.1	768.3	919.2
32.5°	572.1	561.6	524.1	511.1	526.9	535.2	579.2	642.6	683.9	820.0	1002.2
35°	665.7	659.2	613.4	568.1	567.2	577.6	642.3	709.7	741.2	900.7	1115.5
37.5°	799.7	795.1	746.4	685.8	668.2	663.3	719.0	783.6	832.6	1011.5	1247.4
40°	955.2	944.4	899.7	848.3	825.5	811.0	809.5	893.6	952.0	1162.1	1384.7
42.5°	1066.6	1046.9	992.7	989.0	984.1	969.0	925.3	1054.3	1106.3	1324.1	1531.5
45°	1183.7	1153.8	1073.1	1059.2	1057.4	1056.4	1100.2	1244.6	1274.5	1499.5	1682.4
47.5°	1274.5	1250.8	1184.5	1178.4	1186.1	1207.0	1331.4	1446.6	1440.4	1656.0	1809.0
50°	1395.5	1377.6	1304.0	1315.8	1355.5	1389.6	1592.2	1666.8	1576.8	1779.1	1901.0
52.5°	1538.4	1505.4	1437.0	1468.8	1529.7	1586.7	1869.0	1859.5	1672.6	1871.8	1969.7
55°	1662.2	1638.7	1615.3	1648.3	1739.4	1810.5	2119.0	2003.9	1742.2	1946.3	1999.9
57.5°	1871.5	1866.0	1841.9	1875.5	1986.1	2059.9	2342.9	2116.0	1786.8	1985.1	1964.5
60°	2181.3	2172.4	2127.7	2170.5	2314.6	2430.7	2549.2	2216.7	1797.0	1970.0	1862.6
62.5°	2553.8	2523.4	2485.2	2548.3	2746.0	2797.1	2743.6	2276.4	1759.1	1849.9	1616.9
65°	2901.8	2870.4	2871.3	3004.3	3219.5	3254.4	2970.2	2267.5	1648.3	1549.1	1192.6
67.5°	3168.1	3162.9	3200.4	3460.0	3741.5	3717.4	3172.7	2133.8	1319.7	1004.1	633.7
70°	3181.7	3191.8	3299.6	3737.8	4023.5	3985.3	3155.5	1734.5	822.8	461.9	249.7
71°	3017.8	3086.2	3235.3	3729.1	4040.1	3990.6	3010.2	1452.8	603.5	322.0	180.2
72.5°	2571.7	2607.7	2929.8	3509.6	3908.7	3802.7	2641.6	1018.3	386.4	197.1	103.4
75°	1416.4	1505.1	1962.0	2753.3	3126.3	3033.3	1721.6	483.7	192.8	107.7	42.8
77.5°	674.3	657.1	957.3	1637.5	2119.7	2114.7	867.4	214.9	112.4	73.0	21.5
80°	192.8	216.7	366.4	778.4	1176.8	1189.8	333.2	103.7	77.9	57.0	11.1
82.5°	58.2	59.4	134.6	344.3	585.4	551.8	125.0	52.9	56.1	45.3	6.5
85°	10.2	12.6	39.7	121.3	223.2	169.4	31.4	25.2	37.0	29.8	3.7
87.5°	0.6	0.9	13.2	13.9	19.7	11.4	5.6	3.7	8.0	8.0	2.2
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°	645.1	645.1	645.1	645.1	645.1	645.1	645.1	645.1	645.1	645.1	645.1
2.5°	647.2	649.1	647.9	645.1	640.5	634.9	627.5	621.4	616.1	613.4	616.8
5°	651.2	653.7	647.5	633.7	612.8	590.0	564.1	544.1	528.4	523.4	521.6
7.5°	657.4	659.0	642.3	611.5	567.2	513.3	466.2	426.5	395.6	386.4	372.9
10°	665.4	664.5	633.1	575.8	497.9	416.9	344.0	289.7	248.8	234.0	232.8
12.5°	677.7	672.8	621.4	527.1	415.4	309.4	219.2	171.5	145.6	137.0	135.1
15°	693.1	681.4	602.9	470.2	318.1	199.8	135.1	120.7	117.3	116.7	116.1
17.5°	711.3	692.8	578.6	400.3	223.5	129.7	113.0	112.7	113.0	112.4	112.0
20°	735.9	704.8	549.7	317.4	147.8	109.3	107.7	107.7	108.1	107.7	107.7
22.5°	762.1	719.0	513.9	242.3	111.5	103.7	103.4	104.1	104.7	104.4	104.4
25°	794.4	737.4	466.8	166.0	99.8	99.1	99.4	100.7	101.9	102.3	101.9
27.5°	841.3	760.2	416.3	114.2	91.5	92.1	95.1	98.2	100.1	100.4	100.4
30°	893.9	785.5	350.4	92.7	84.6	84.6	88.4	94.2	98.2	98.8	99.1
32.5°	961.6	814.7	277.4	83.5	78.2	77.6	81.0	88.1	95.4	97.6	97.6
35°	1045.4	849.2	206.3	77.6	73.6	72.0	73.9	79.8	89.3	95.4	96.1
37.5°	1143.6	881.9	150.9	72.3	69.3	67.1	68.4	73.0	80.6	89.9	92.4
40°	1234.4	910.8	112.7	68.0	65.0	63.4	64.4	66.5	73.0	81.6	83.2
42.5°	1333.6	933.3	89.6	63.4	60.7	60.1	60.1	61.0	65.3	70.2	70.5
45°	1432.4	941.3	75.2	57.9	56.1	56.7	56.4	55.7	57.6	57.0	57.0
47.5°	1503.0	931.8	62.2	52.6	52.6	53.6	52.1	49.9	48.9	45.3	45.6
50°	1551.3	896.9	51.1	46.5	48.9	50.2	47.1	43.7	40.3	36.3	35.4
52.5°	1571.3	835.1	41.9	38.5	43.4	44.9	41.3	37.3	32.0	28.7	27.7
55°	1558.3	758.7	34.8	31.4	36.6	38.5	34.8	30.1	24.4	20.6	20.0
57.5°	1501.4	667.6	29.6	25.0	29.3	30.5	28.0	23.1	17.2	13.5	13.5
60°	1402.8	573.3	24.0	19.7	21.8	23.7	21.2	16.6	11.7	8.3	7.7
62.5°	1203.0	465.6	19.4	15.4	15.4	16.9	14.8	12.0	7.4	4.3	4.0
65°	868.7	319.3	15.4	11.4	11.1	11.1	9.2	8.0	4.3	1.9	1.3
67.5°	472.1	180.2	12.3	8.6	7.7	7.4	5.9	4.6	1.9	0.3	0.0
70°	185.6	69.3	9.6	5.9	4.9	4.6	3.1	2.2	1.3	0.0	0.0
71°	125.9	47.8	8.3	4.9	4.0	3.4	2.4	1.9	0.9	0.0	0.0
72.5°	72.0	29.6	6.5	3.7	3.1	2.4	1.9	1.3	0.9	0.0	0.0
75°	31.4	15.1	4.0	2.7	2.2	1.6	1.3	0.9	0.3	0.0	0.0
77.5°	16.0	8.3	2.7	2.2	1.3	0.9	0.6	0.3	0.0	0.0	0.0
80°	8.9	4.3	1.9	1.3	0.9	0.6	0.3	0.3	0.0	0.0	0.0
82.5°	4.9	2.4	0.9	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.1	1.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.6	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)