

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: P450737

Luminaire Tested: **GALN-SA1C-740-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450737
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-740-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 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: 5123 lumens
Efficiency: N/A
Efficacy: 89.9 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

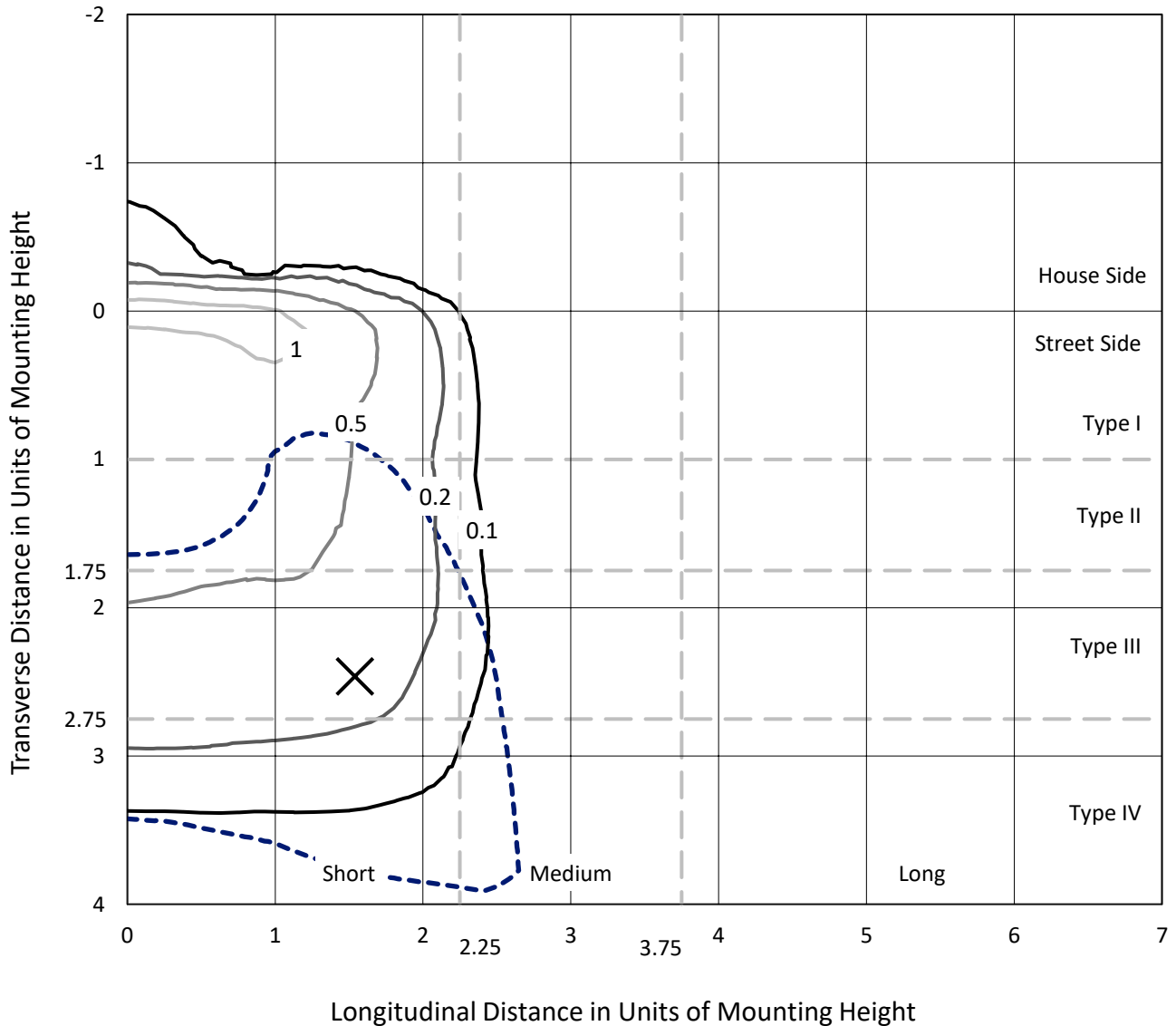
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

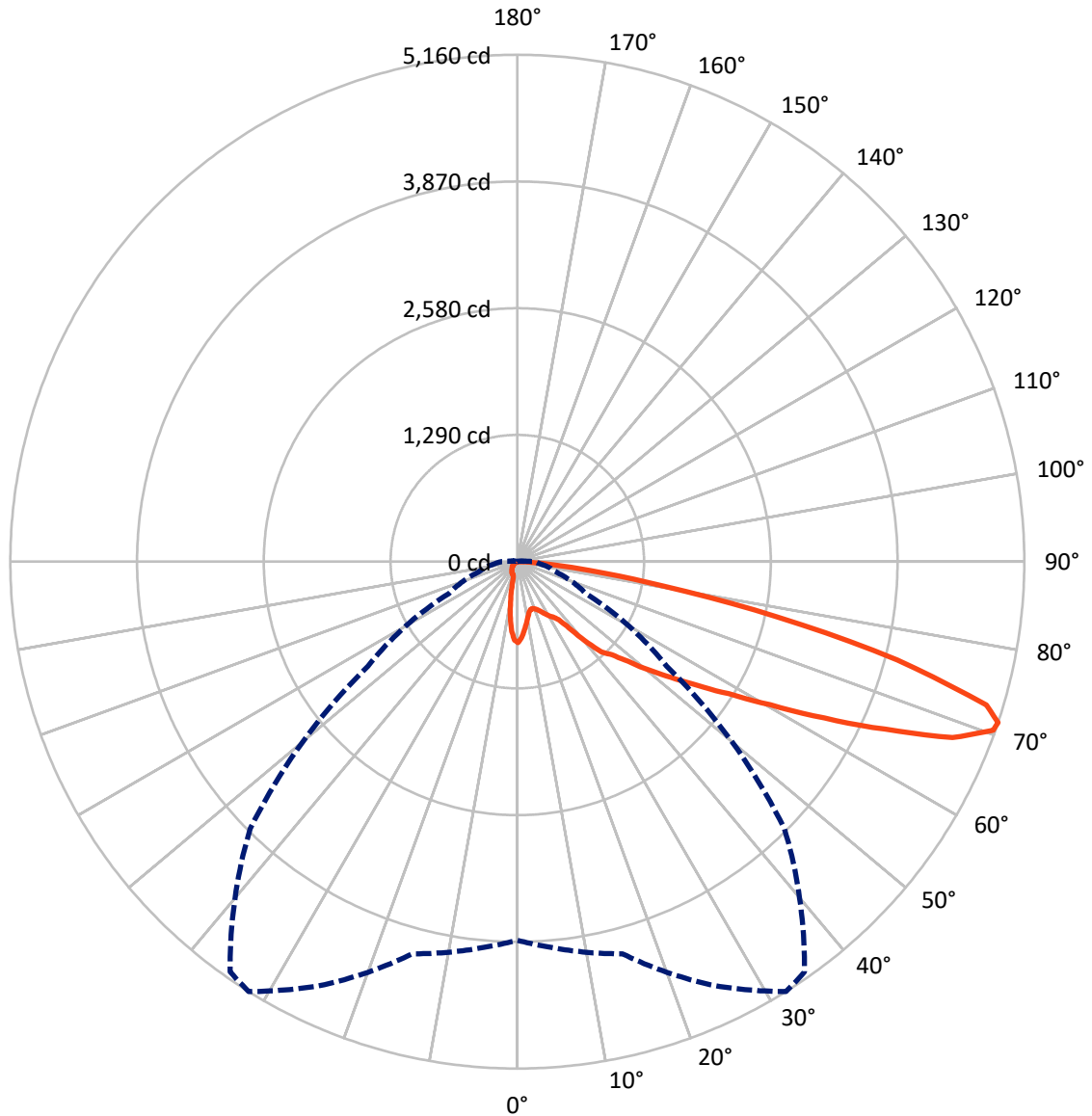
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 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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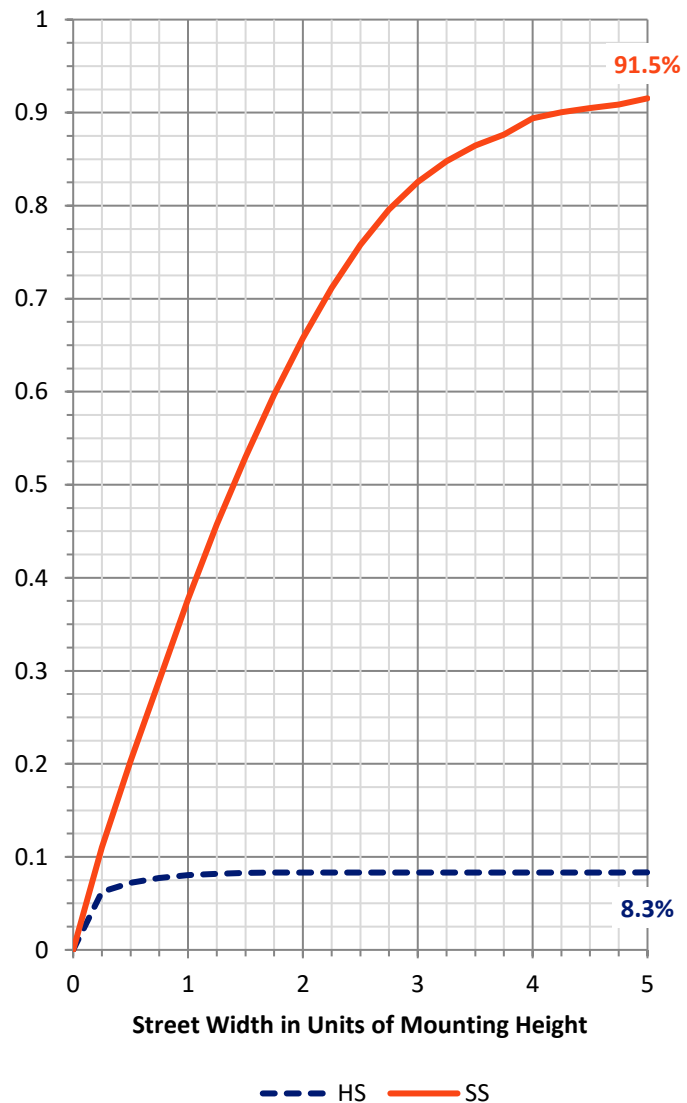
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	429.1	0.0	429.1
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	4693.9	0.0	4693.9
	% Fixture	91.6	0.0	91.6
Total	Lumens	5123.0	0.0	5123.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.0	1.3
10°-20°	145.4	2.8
20°-30°	226.2	4.4
30°-40°	376.8	7.4
40°-50°	701.0	13.7
50°-60°	1125.4	22.0
60°-70°	1513.7	29.5
70°-80°	898.1	17.5
80°-90°	69.4	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°	5123.0	100.0
0°-180°	5123.0	100.0



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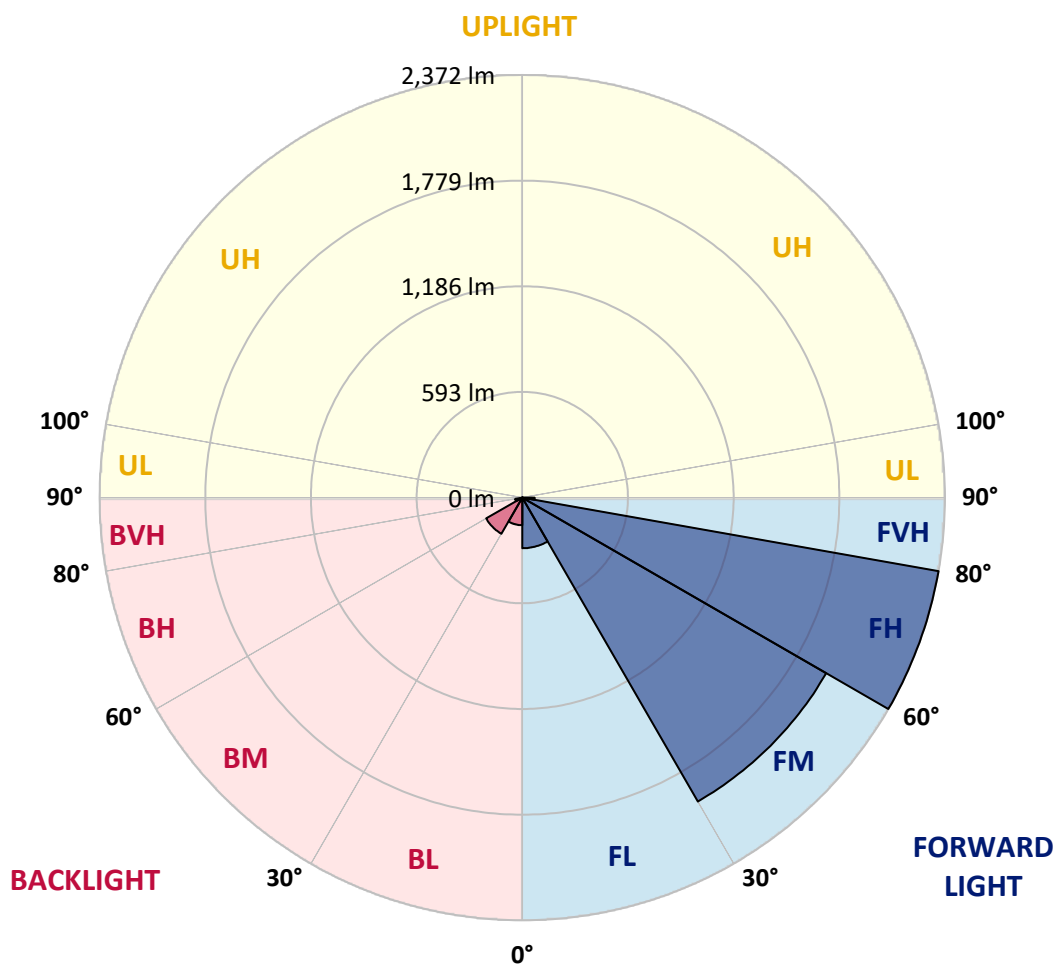
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	284.0	5.5			
FM	(30°-60°)	1969.1	38.4			
FH	(60°-80°)	2371.7	46.3			G2/5000
FVH	(80°-90°)	69.2	1.3			G1/100
BL	(0°-30°)	154.6	3.0	B1/500		
BM	(30°-60°)	234.1	4.6	B1/1000		
BH	(60°-80°)	40.1	0.8	B0/110		G0/110
BVH	(80°-90°)	0.3	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°	823.9	823.9	823.9	823.9	823.9	823.9	823.9	823.9	823.9	823.9	823.9
2.5°	764.1	771.9	770.8	773.5	780.2	783.0	790.4	798.7	810.1	818.0	823.1
5°	684.3	690.2	690.9	704.7	711.4	718.9	740.9	764.9	791.6	812.8	827.0
7.5°	598.9	602.1	608.4	626.4	643.4	650.8	684.3	725.9	768.0	807.7	833.3
10°	528.5	532.1	543.5	562.7	578.5	588.3	634.7	687.0	746.0	805.0	842.3
12.5°	488.4	490.4	494.7	512.0	532.1	542.7	592.6	652.4	728.3	806.2	857.7
15°	485.7	484.9	479.8	486.8	504.9	515.9	564.7	628.8	712.6	810.1	875.8
17.5°	500.2	498.2	486.1	486.1	501.0	510.0	552.9	616.2	704.7	819.1	901.3
20°	522.6	519.5	499.4	497.9	512.4	521.8	560.0	617.0	706.3	836.0	935.5
22.5°	550.9	547.4	517.1	517.9	533.6	543.1	580.4	631.2	716.1	856.9	972.1
25°	587.9	584.0	548.2	546.6	563.1	571.4	610.7	656.3	729.9	882.8	1020.1
27.5°	637.1	628.8	585.9	583.6	601.3	611.9	647.3	690.2	754.3	918.6	1084.6
30°	677.6	668.5	627.6	621.3	640.2	648.5	685.0	735.8	802.2	981.2	1173.9
32.5°	730.7	717.3	669.3	652.8	672.9	683.5	739.7	820.7	873.4	1047.2	1280.0
35°	850.2	841.9	783.4	725.5	724.4	737.7	820.3	906.4	946.6	1150.3	1424.7
37.5°	1021.3	1015.4	953.2	875.8	853.4	847.1	918.2	1000.8	1063.3	1291.8	1593.1
40°	1219.9	1206.1	1149.1	1083.4	1054.3	1035.8	1033.9	1141.2	1215.9	1484.1	1768.4
42.5°	1362.2	1337.0	1267.8	1263.1	1256.8	1237.6	1181.7	1346.5	1412.9	1691.0	1956.0
45°	1511.7	1473.5	1370.5	1352.8	1350.4	1349.2	1405.1	1589.5	1627.7	1915.1	2148.7
47.5°	1627.7	1597.4	1512.8	1505.0	1514.8	1541.5	1700.4	1847.5	1839.6	2114.9	2310.3
50°	1782.2	1759.4	1665.4	1680.4	1731.1	1774.7	2033.5	2128.7	2013.8	2272.2	2427.9
52.5°	1964.7	1922.6	1835.3	1875.8	1953.7	2026.4	2387.0	2374.8	2136.1	2390.6	2515.6
55°	2122.8	2092.9	2063.0	2105.1	2221.5	2312.3	2706.3	2559.3	2225.0	2485.7	2554.2
57.5°	2390.2	2383.1	2352.4	2395.3	2536.5	2630.8	2992.2	2702.4	2282.0	2535.3	2508.9
60°	2785.8	2774.4	2717.4	2772.0	2956.1	3104.3	3255.7	2831.0	2295.0	2516.0	2378.8
62.5°	3261.6	3222.7	3173.9	3254.5	3507.0	3572.3	3503.9	2907.3	2246.6	2362.6	2065.0
65°	3706.0	3665.9	3667.1	3836.9	4111.8	4156.3	3793.3	2895.9	2105.1	1978.4	1523.1
67.5°	4046.1	4039.5	4087.4	4418.9	4778.4	4747.7	4052.0	2725.2	1685.5	1282.4	809.3
70°	4063.5	4076.4	4214.1	4773.7	5138.6	5089.8	4030.0	2215.2	1050.8	589.9	318.9
71°	3854.2	3941.5	4131.9	4762.6	5159.8	5096.5	3844.4	1855.4	770.8	411.3	230.1
72.5°	3284.4	3330.4	3741.8	4482.3	4991.9	4856.6	3373.7	1300.5	493.5	251.7	132.1
75°	1808.9	1922.2	2505.8	3516.4	3992.7	3873.9	2198.7	617.8	246.2	137.6	54.7
77.5°	861.2	839.2	1222.6	2091.3	2707.1	2700.8	1107.8	274.5	143.5	93.2	27.5
80°	246.2	276.8	468.0	994.1	1503.0	1519.5	425.5	132.5	99.5	72.8	14.2
82.5°	74.3	75.9	171.9	439.7	747.6	704.7	159.7	67.6	71.6	57.8	8.3
85°	13.0	16.1	50.7	154.9	285.1	216.3	40.1	32.2	47.2	38.1	4.7
87.5°	0.8	1.2	16.9	17.7	25.2	14.6	7.1	4.7	10.2	10.2	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°	823.9	823.9	823.9	823.9	823.9	823.9	823.9	823.9	823.9	823.9	823.9
2.5°	826.6	829.0	827.4	823.9	818.0	810.9	801.4	793.6	786.9	783.4	787.7
5°	831.7	834.9	827.0	809.3	782.6	753.5	720.4	694.9	674.8	668.5	666.2
7.5°	839.6	841.6	820.3	781.0	724.4	655.5	595.4	544.7	505.3	493.5	476.2
10°	849.8	848.6	808.5	735.4	635.9	532.5	439.3	370.0	317.7	298.9	297.3
12.5°	865.5	859.3	793.6	673.2	530.5	395.2	280.0	219.0	186.0	175.0	172.6
15°	885.2	870.3	770.0	600.5	406.2	255.2	172.6	154.2	149.8	149.0	148.3
17.5°	908.4	884.8	738.9	511.2	285.5	165.6	144.3	143.9	144.3	143.5	143.1
20°	939.9	900.1	702.0	405.4	188.8	139.6	137.6	137.6	138.0	137.6	137.6
22.5°	973.3	918.2	656.3	309.5	142.4	132.5	132.1	132.9	133.7	133.3	133.3
25°	1014.6	941.8	596.2	212.0	127.4	126.6	127.0	128.6	130.2	130.6	130.2
27.5°	1074.4	970.9	531.7	145.9	116.8	117.6	121.5	125.4	127.8	128.2	128.2
30°	1141.6	1003.2	447.5	118.4	108.1	108.1	112.9	120.3	125.4	126.2	126.6
32.5°	1228.1	1040.5	354.3	106.6	99.9	99.1	103.4	112.5	121.9	124.7	124.7
35°	1335.1	1084.6	263.5	99.1	94.0	92.0	94.4	101.9	114.0	121.9	122.7
37.5°	1460.5	1126.3	192.7	92.4	88.5	85.7	87.3	93.2	103.0	114.8	118.0
40°	1576.5	1163.2	143.9	86.9	83.0	81.0	82.2	84.9	93.2	104.2	106.2
42.5°	1703.2	1191.9	114.4	81.0	77.5	76.7	76.7	77.9	83.4	89.7	90.1
45°	1829.4	1202.2	96.0	73.9	71.6	72.4	72.0	71.2	73.5	72.8	72.8
47.5°	1919.5	1190.0	79.4	67.2	67.2	68.4	66.5	63.7	62.5	57.8	58.2
50°	1981.2	1145.5	65.3	59.4	62.5	64.1	60.2	55.8	51.5	46.4	45.2
52.5°	2006.8	1066.5	53.5	49.2	55.4	57.4	52.7	47.6	40.9	36.6	35.4
55°	1990.2	969.0	44.4	40.1	46.8	49.2	44.4	38.5	31.1	26.3	25.6
57.5°	1917.5	852.6	37.8	31.9	37.4	38.9	35.8	29.5	22.0	17.3	17.3
60°	1791.6	732.2	30.7	25.2	27.9	30.3	27.1	21.2	14.9	10.6	9.8
62.5°	1536.4	594.6	24.8	19.7	19.7	21.6	18.9	15.3	9.4	5.5	5.1
65°	1109.4	407.8	19.7	14.6	14.2	14.2	11.8	10.2	5.5	2.4	1.6
67.5°	602.9	230.1	15.7	11.0	9.8	9.4	7.5	5.9	2.4	0.4	0.0
70°	237.1	88.5	12.2	7.5	6.3	5.9	3.9	2.8	1.6	0.0	0.0
71°	160.8	61.0	10.6	6.3	5.1	4.3	3.1	2.4	1.2	0.0	0.0
72.5°	92.0	37.8	8.3	4.7	3.9	3.1	2.4	1.6	1.2	0.0	0.0
75°	40.1	19.3	5.1	3.5	2.8	2.0	1.6	1.2	0.4	0.0	0.0
77.5°	20.4	10.6	3.5	2.8	1.6	1.2	0.8	0.4	0.0	0.0	0.0
80°	11.4	5.5	2.4	1.6	1.2	0.8	0.4	0.4	0.0	0.0	0.0
82.5°	6.3	3.1	1.2	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.9	2.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.0	0.8	0.0	0.0	0.0	0.0	0.4	0.4	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)