

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: P451377

Luminaire Tested: **GALN-SA2B-727-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451377
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2B-727-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6923 lumens
Efficiency: N/A
Efficacy: 84.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

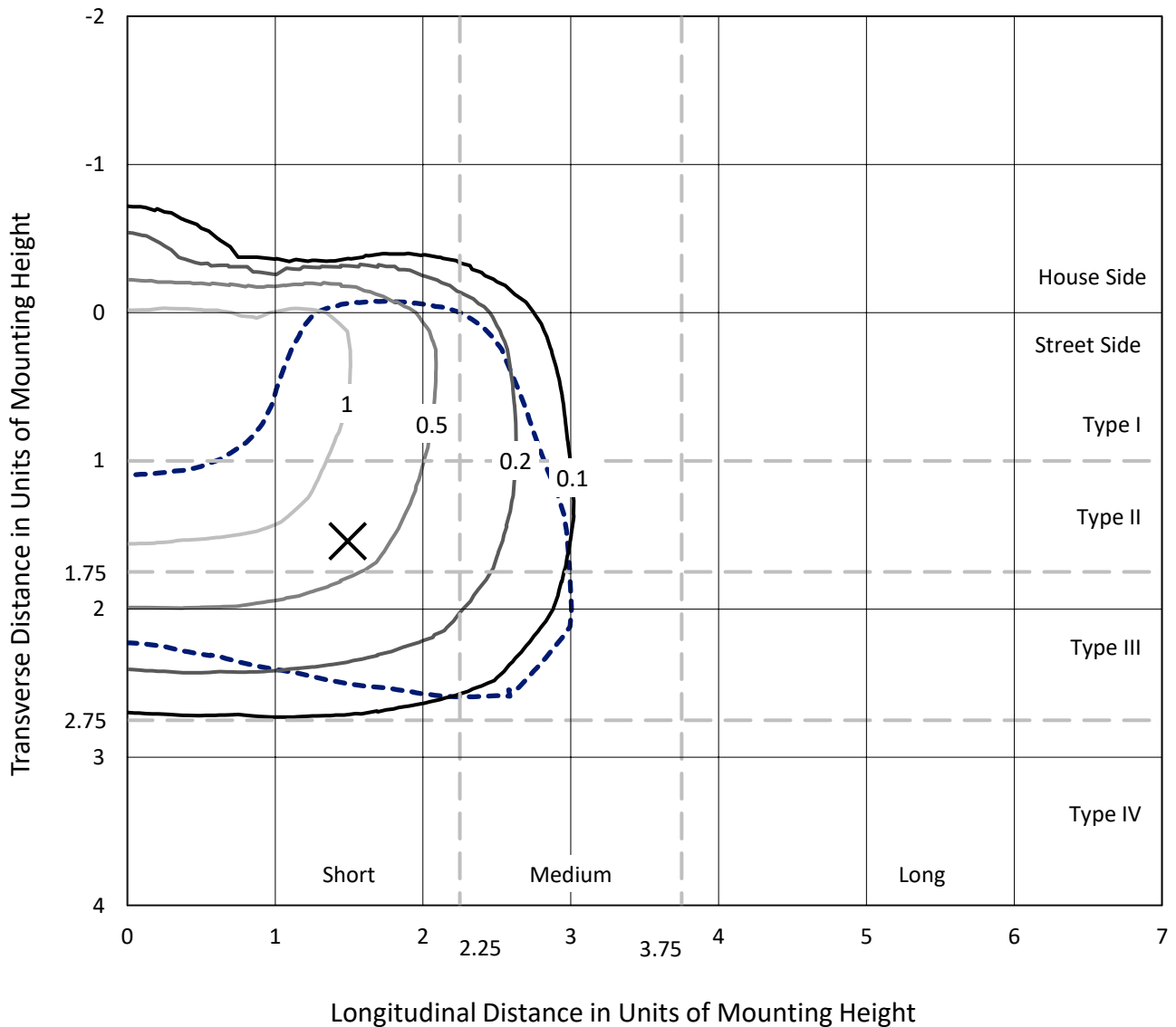
Input Watts (W): 82
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

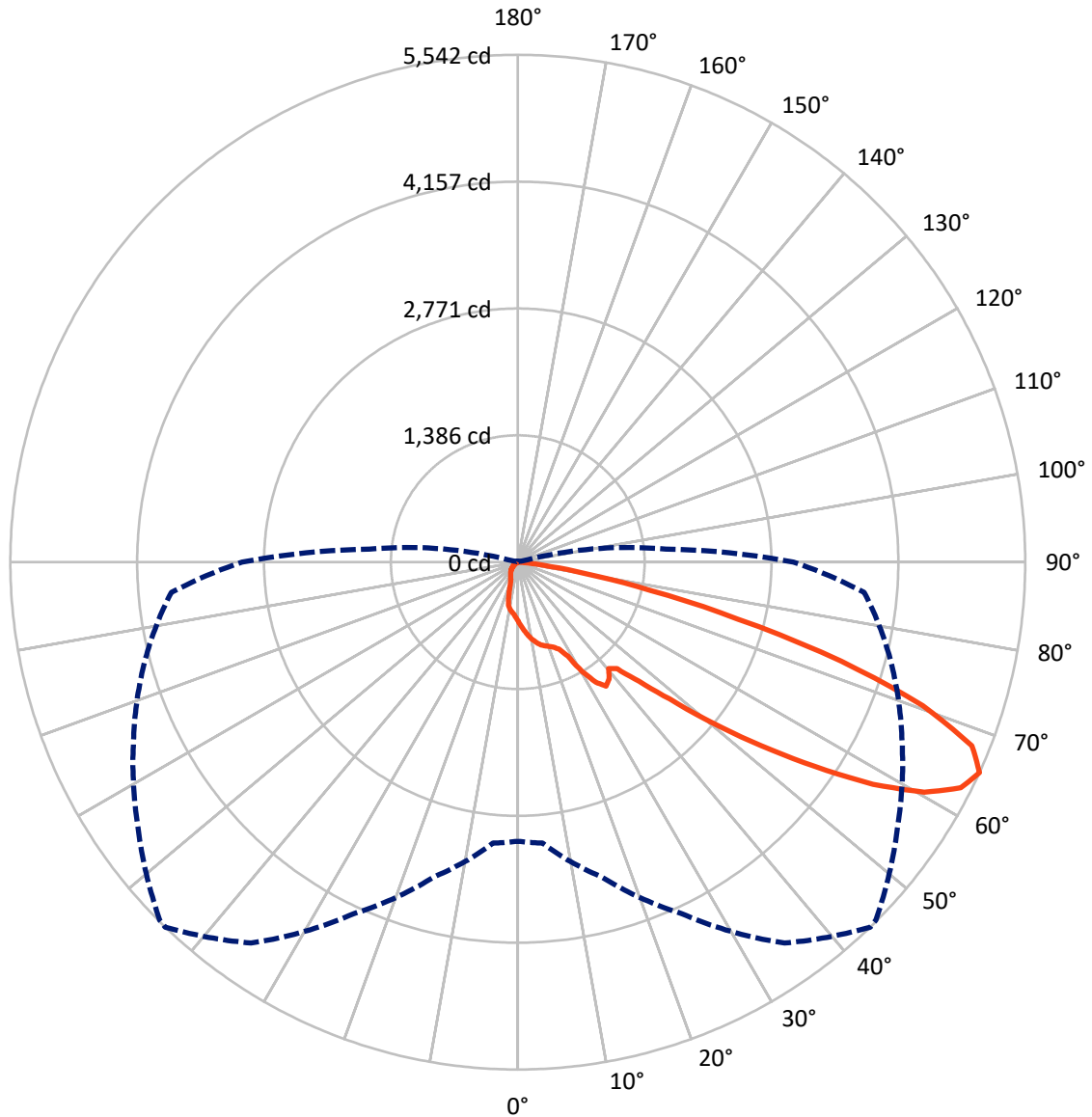
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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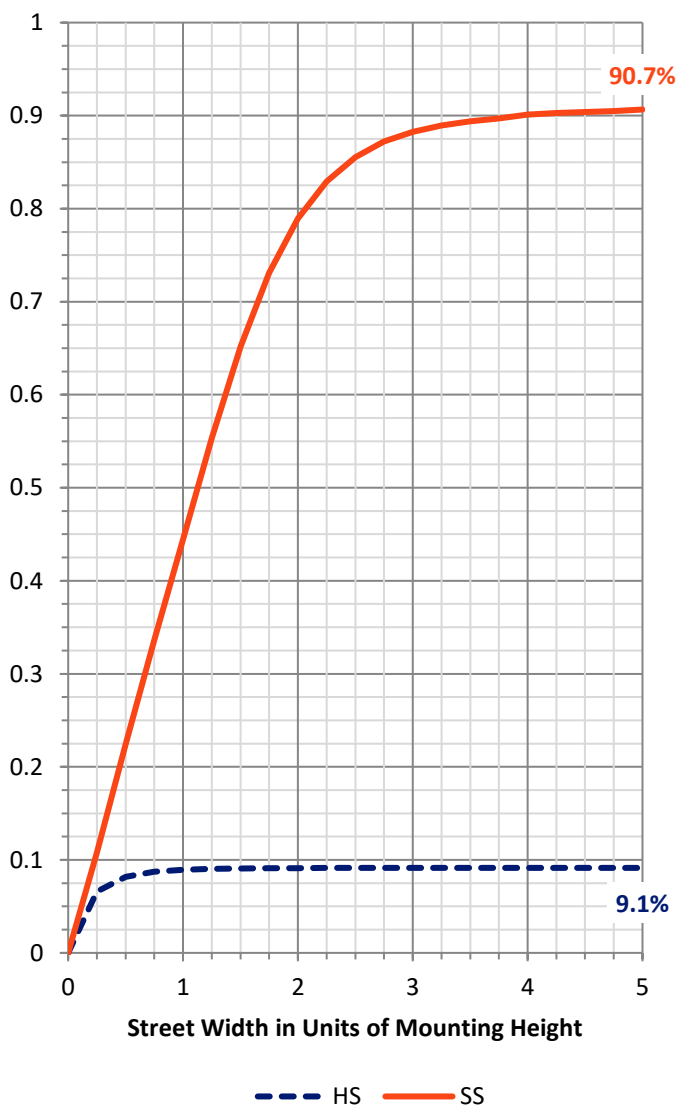
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	637.9	0.0	637.9
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	6285.1	0.0	6285.1
	% Fixture	90.8	0.0	90.8
Total	Lumens	6923.0	0.0	6923.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.1	0.9
10°-20°	192.9	2.8
20°-30°	327.0	4.7
30°-40°	543.8	7.9
40°-50°	949.4	13.7
50°-60°	1854.9	26.8
60°-70°	2152.1	31.1
70°-80°	783.7	11.3
80°-90°	55.2	0.8
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°	6923.0	100.0
0°-180°	6923.0	100.0

Coefficient of Utilization



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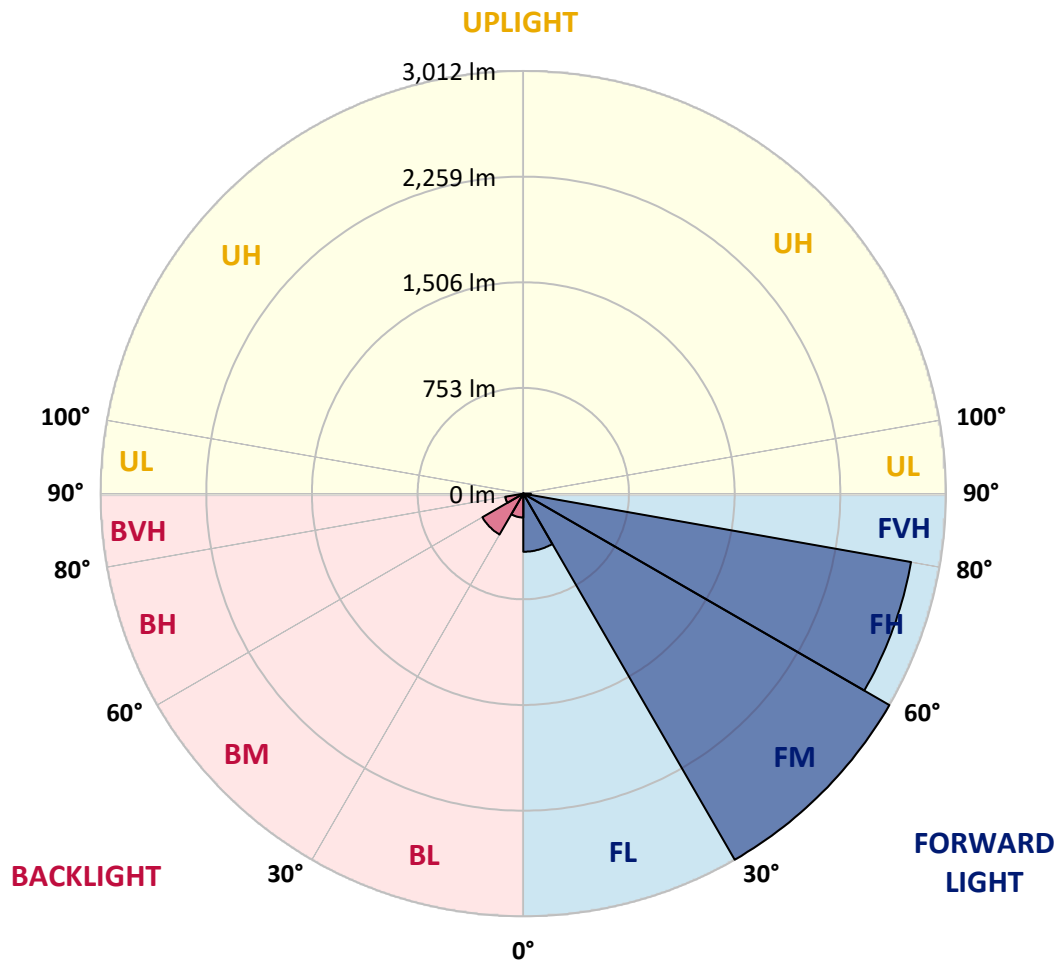
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	414.1	6.0			
FM	(30°-60°)	3011.5	43.5			
FH	(60°-80°)	2805.1	40.5			G2/5000
FVH	(80°-90°)	54.5	0.8			G1/100
BL	(0°-30°)	169.9	2.5	B1/500		
BM	(30°-60°)	336.5	4.9	B1/1000		
BH	(60°-80°)	130.6	1.9	B1/500		G1/500
BVH	(80°-90°)	0.8	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	644.3	644.3	644.3	644.3	644.3	644.3	644.3	644.3	644.3	644.3	644.3
2.5°	725.3	722.1	720.5	712.0	705.7	697.8	697.8	687.7	676.1	663.4	651.7
5°	806.2	800.9	794.0	786.6	771.8	750.7	750.7	729.5	705.2	683.5	659.7
7.5°	884.0	879.2	867.6	853.3	828.9	806.7	805.1	774.5	745.4	712.6	678.7
10°	952.2	948.5	938.5	910.9	885.5	856.5	855.9	821.5	787.7	747.5	705.7
12.5°	999.8	1000.3	987.1	960.7	927.9	900.4	898.2	864.4	828.9	785.6	734.3
15°	1033.7	1033.7	1019.9	990.3	960.7	936.3	934.2	904.6	868.1	821.0	765.5
17.5°	1043.2	1046.4	1031.6	1005.1	981.3	960.1	959.6	934.7	905.7	860.2	797.2
20°	1039.5	1042.7	1031.0	1010.4	994.0	981.8	980.2	970.2	943.2	900.4	831.1
22.5°	1031.6	1034.7	1026.3	1014.1	1006.2	1009.9	1007.2	1015.7	1001.4	949.6	871.3
25°	1033.1	1036.3	1030.0	1023.1	1030.0	1052.7	1059.6	1096.1	1083.4	1012.0	914.6
27.5°	1082.9	1089.2	1080.2	1083.4	1107.7	1160.6	1173.9	1236.8	1180.7	1091.3	982.4
30°	1193.4	1189.2	1172.3	1187.6	1272.3	1384.4	1380.7	1370.6	1282.8	1182.8	1062.8
32.5°	1293.9	1290.2	1289.2	1355.3	1508.7	1563.2	1560.6	1463.2	1374.3	1287.6	1142.1
35°	1334.7	1320.4	1317.2	1477.5	1734.1	1662.1	1645.7	1501.3	1485.4	1401.9	1223.1
37.5°	1457.4	1447.4	1398.2	1497.6	1644.1	1620.3	1607.6	1566.9	1603.9	1502.9	1314.6
40°	1710.3	1682.2	1637.8	1540.5	1516.6	1526.7	1539.4	1651.0	1744.1	1641.0	1436.8
42.5°	2024.5	2018.1	1935.6	1754.2	1575.9	1589.7	1606.1	1826.6	1945.7	1848.9	1636.2
45°	2401.7	2410.7	2291.6	2077.4	1843.6	1855.2	1879.0	2085.9	2218.6	2172.1	1949.9
47.5°	2744.5	2737.6	2697.4	2474.7	2258.8	2232.9	2271.5	2418.6	2596.3	2603.7	2339.2
50°	3089.4	3125.9	3066.1	2978.8	2818.5	2764.0	2749.8	2821.7	3092.5	3057.1	2806.9
52.5°	3585.0	3604.1	3491.9	3469.7	3506.2	3329.5	3315.3	3332.7	3575.0	3453.3	3157.1
55°	3896.6	3885.5	3843.7	4017.2	4161.7	3941.1	3923.1	3852.7	3975.5	3733.2	3494.1
57.5°	3995.0	4010.9	4108.2	4421.9	4763.7	4576.4	4543.6	4343.6	4264.3	3994.0	3804.1
60°	3951.1	3980.2	4190.2	4656.8	5130.8	5102.8	5074.7	4738.8	4471.7	4211.9	4021.5
62.5°	3638.5	3679.2	4015.1	4615.0	5255.1	5430.2	5395.3	4985.3	4609.7	4317.7	4059.6
65°	3049.2	3079.3	3561.8	4235.7	5078.4	5542.4	5529.7	5062.6	4631.4	4220.9	3798.8
67.5°	2173.7	2276.3	2723.3	3569.7	4555.8	5350.9	5372.5	4970.0	4427.7	3802.5	3146.0
70°	1366.4	1436.2	1756.8	2555.6	3652.2	4694.4	4765.8	4546.2	3842.7	2964.0	2106.0
72.5°	651.7	703.6	932.1	1617.7	2577.8	3693.5	3750.1	3732.1	2971.4	1867.4	1086.6
75°	290.4	310.0	444.9	825.8	1664.2	2482.6	2629.1	2653.5	1856.8	913.6	422.7
77.5°	148.1	148.6	208.4	399.9	831.1	1481.2	1510.3	1595.5	1006.7	402.6	147.1
80°	78.8	84.1	110.6	188.9	431.1	729.5	725.8	797.7	446.5	197.3	49.2
82.5°	35.4	39.1	62.4	98.9	210.5	276.7	298.4	326.4	191.5	125.9	21.7
85°	10.6	12.7	30.7	49.7	76.2	79.9	89.4	115.3	108.4	89.4	11.1
87.5°	1.6	1.6	12.7	13.8	11.1	14.3	14.8	16.4	34.9	32.8	5.8
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°	644.3	644.3	644.3	644.3	644.3	644.3	644.3	644.3	644.3	644.3	644.3
2.5°	645.4	641.7	628.5	617.3	607.8	602.0	595.1	590.9	588.8	587.2	587.7
5°	648.0	639.0	616.3	598.3	584.5	569.7	559.7	553.9	551.2	547.0	547.0
7.5°	662.8	648.6	616.8	589.3	565.5	545.4	526.4	519.5	514.7	513.7	512.6
10°	684.0	666.0	622.6	584.5	550.7	523.2	496.2	472.4	453.9	442.8	441.2
12.5°	710.5	684.5	631.6	581.4	538.0	489.3	417.9	369.8	337.5	327.5	329.0
15°	734.8	706.7	640.6	578.7	514.7	405.7	324.8	269.8	253.4	251.8	252.3
17.5°	763.9	730.6	651.2	575.0	450.7	310.0	241.2	226.4	229.6	234.9	234.3
20°	794.0	755.9	663.9	552.8	359.7	233.3	213.2	214.8	219.5	224.3	225.4
22.5°	826.3	785.0	678.7	499.4	274.6	203.1	202.1	204.2	209.0	214.2	215.3
25°	870.7	821.5	689.8	429.5	207.9	187.8	189.9	193.6	197.8	203.7	204.7
27.5°	927.9	870.7	695.6	338.6	179.9	174.0	174.6	179.9	185.2	190.4	190.4
30°	1001.9	929.5	684.0	256.0	166.1	160.8	158.7	161.9	168.8	174.0	174.6
32.5°	1068.1	985.0	653.3	195.7	156.1	148.6	143.4	143.9	146.5	149.7	150.2
35°	1134.2	1039.0	600.9	164.5	145.5	137.0	129.1	124.8	122.7	121.1	122.7
37.5°	1218.8	1106.1	531.1	149.7	136.5	125.9	114.8	105.8	98.4	93.6	94.7
40°	1327.8	1199.2	448.6	140.2	128.0	115.3	100.5	88.9	76.2	71.9	69.8
42.5°	1507.7	1340.5	361.8	132.3	119.6	104.2	85.7	69.8	58.2	54.0	55.0
45°	1791.7	1518.8	278.8	123.8	111.1	92.0	71.9	55.0	45.5	43.4	44.4
47.5°	2168.4	1749.4	214.8	114.3	100.5	78.8	56.6	43.4	37.6	37.0	36.5
50°	2522.8	1964.2	179.3	103.7	87.8	65.6	46.6	36.5	32.8	32.3	32.3
52.5°	2843.4	2118.1	146.0	91.5	74.1	54.0	39.1	32.3	29.1	27.5	27.5
55°	3128.5	2218.6	118.5	76.7	58.2	42.8	33.9	29.1	25.4	23.3	22.7
57.5°	3343.8	2230.8	88.9	61.4	43.4	33.3	29.1	25.4	21.2	18.5	17.5
60°	3435.9	2125.5	65.6	46.6	32.3	26.5	23.3	20.6	15.9	13.2	12.7
62.5°	3343.3	1920.8	48.7	35.4	24.9	19.6	16.4	15.3	11.1	7.9	7.4
65°	3011.6	1625.1	38.6	27.0	18.5	14.3	10.6	10.1	6.9	3.7	3.2
67.5°	2412.8	1272.8	30.7	20.1	13.2	9.5	6.9	6.3	3.7	1.1	1.1
70°	1569.0	813.6	24.9	14.8	8.5	6.3	4.2	3.2	2.1	0.5	0.0
72.5°	776.0	380.4	20.1	11.6	5.8	3.2	1.6	1.1	1.6	0.0	0.0
75°	301.0	135.4	14.8	7.9	3.2	1.6	1.1	0.0	0.5	0.0	0.0
77.5°	100.0	45.0	9.0	4.2	2.1	1.1	0.0	0.0	0.0	0.0	0.0
80°	37.0	17.5	4.8	2.6	1.1	0.5	0.0	0.0	0.0	0.0	0.0
82.5°	14.8	6.9	3.2	2.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.4	4.2	2.1	1.6	1.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.3	3.2	2.1	1.6	1.1	0.5	0.0	0.0	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)