

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: P945223

Luminaire Tested: **GALN-SB1B-727-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945223
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1B-727-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3993 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 39.8
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

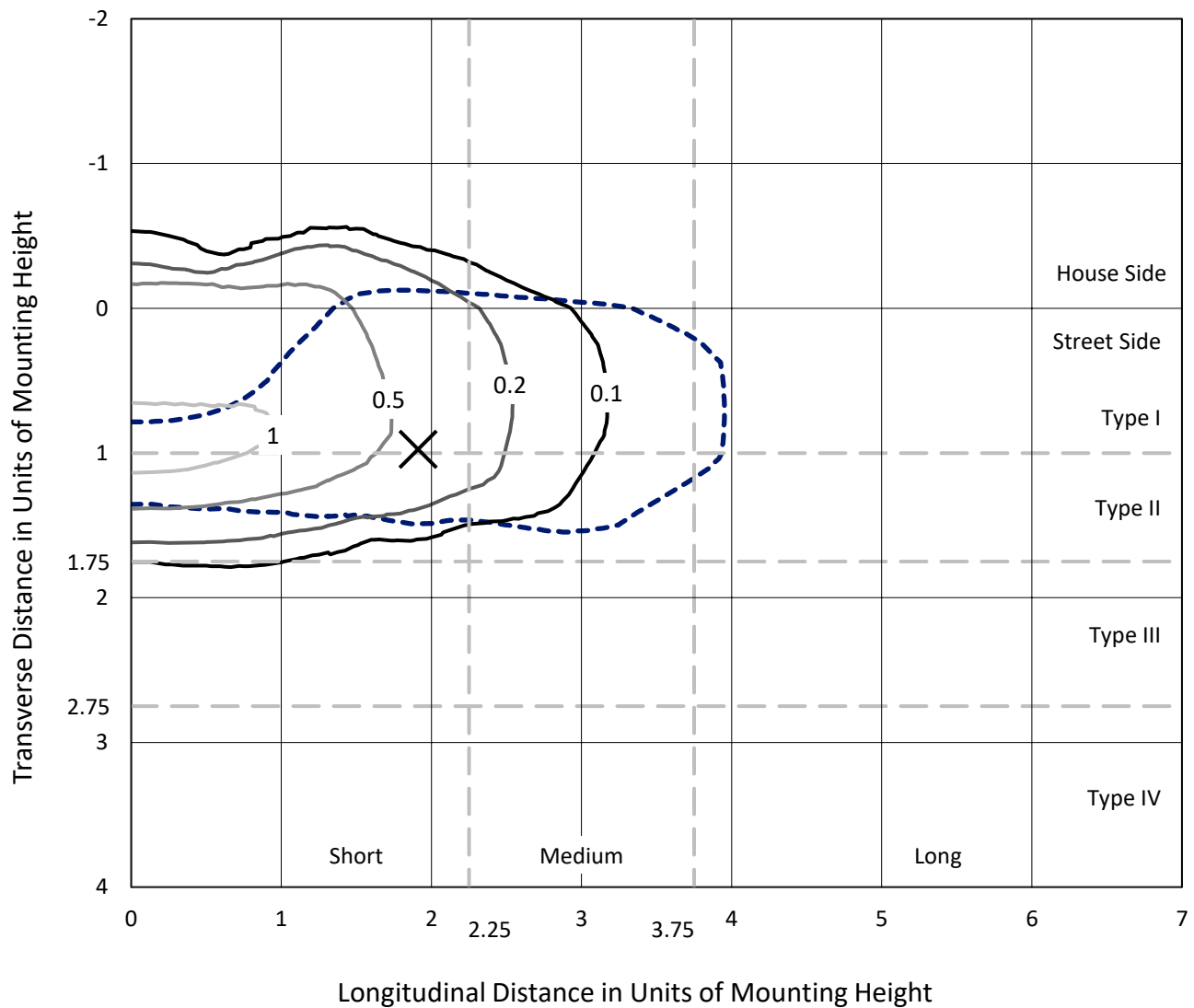


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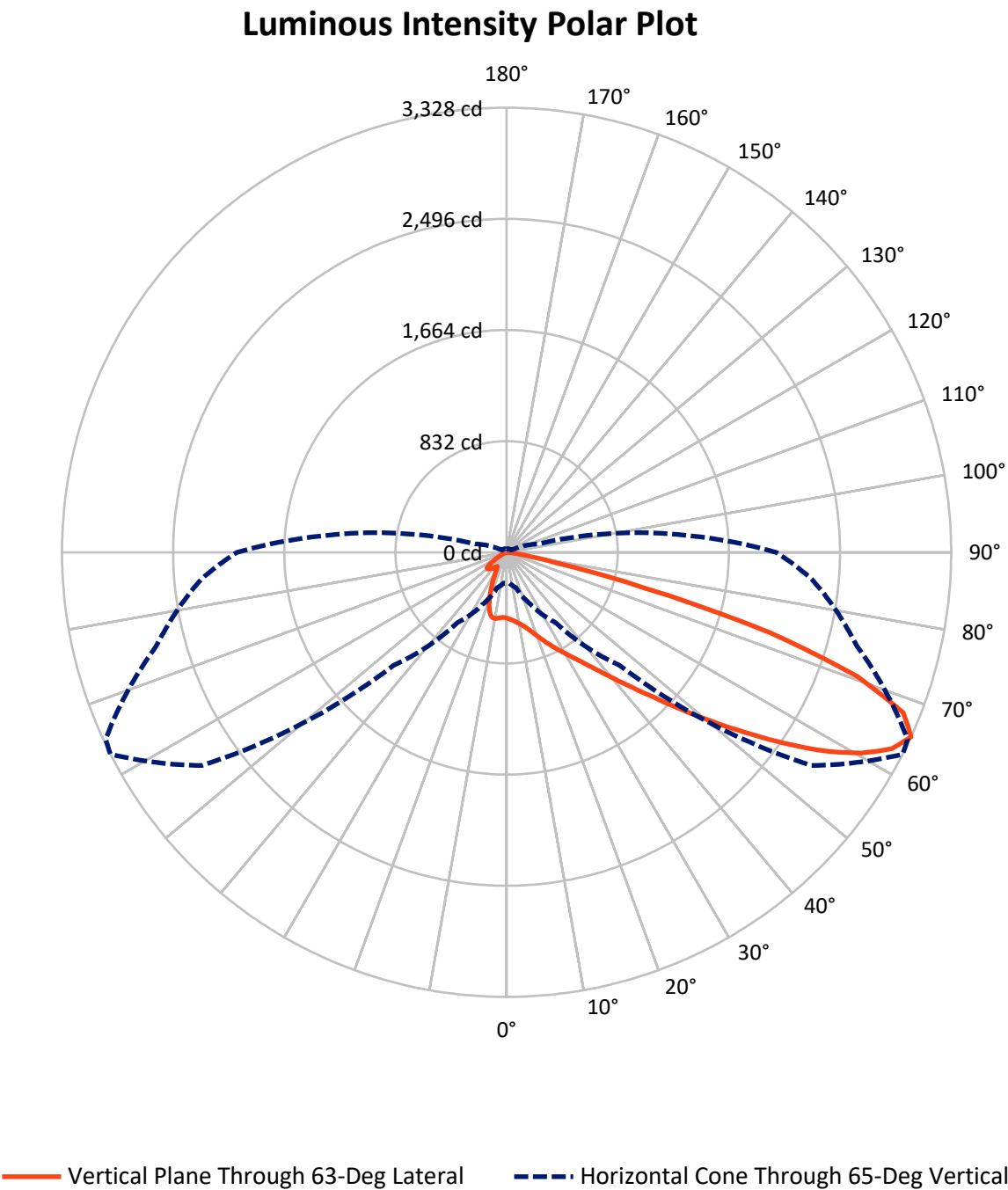
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
Type II - Short - N/A

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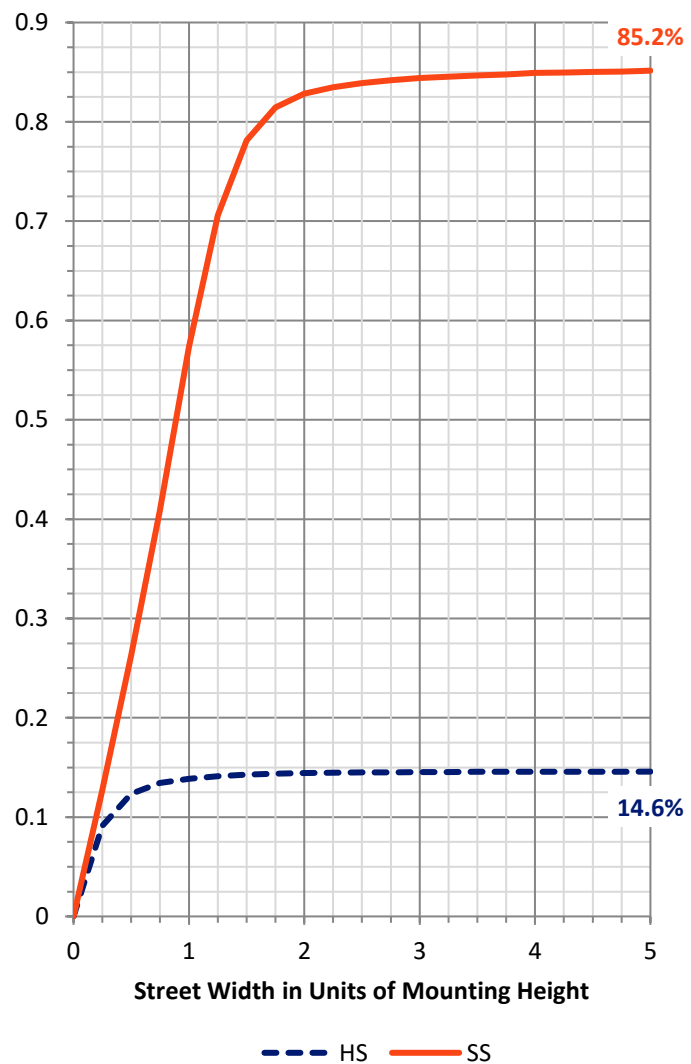
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	586.9	0.0	586.9
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	3406.1	0.0	3406.1
	% Fixture	85.3	0.0	85.3
Total	Lumens	3993.0	0.0	3993.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.4	1.2
10°-20°	128.8	3.2
20°-30°	224.3	5.6
30°-40°	404.3	10.1
40°-50°	801.9	20.1
50°-60°	1092.3	27.4
60°-70°	871.9	21.8
70°-80°	394.6	9.9
80°-90°	28.4	0.7
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°	3993.0	100.0
0°-180°	3993.0	100.0

Coefficient of Utilization



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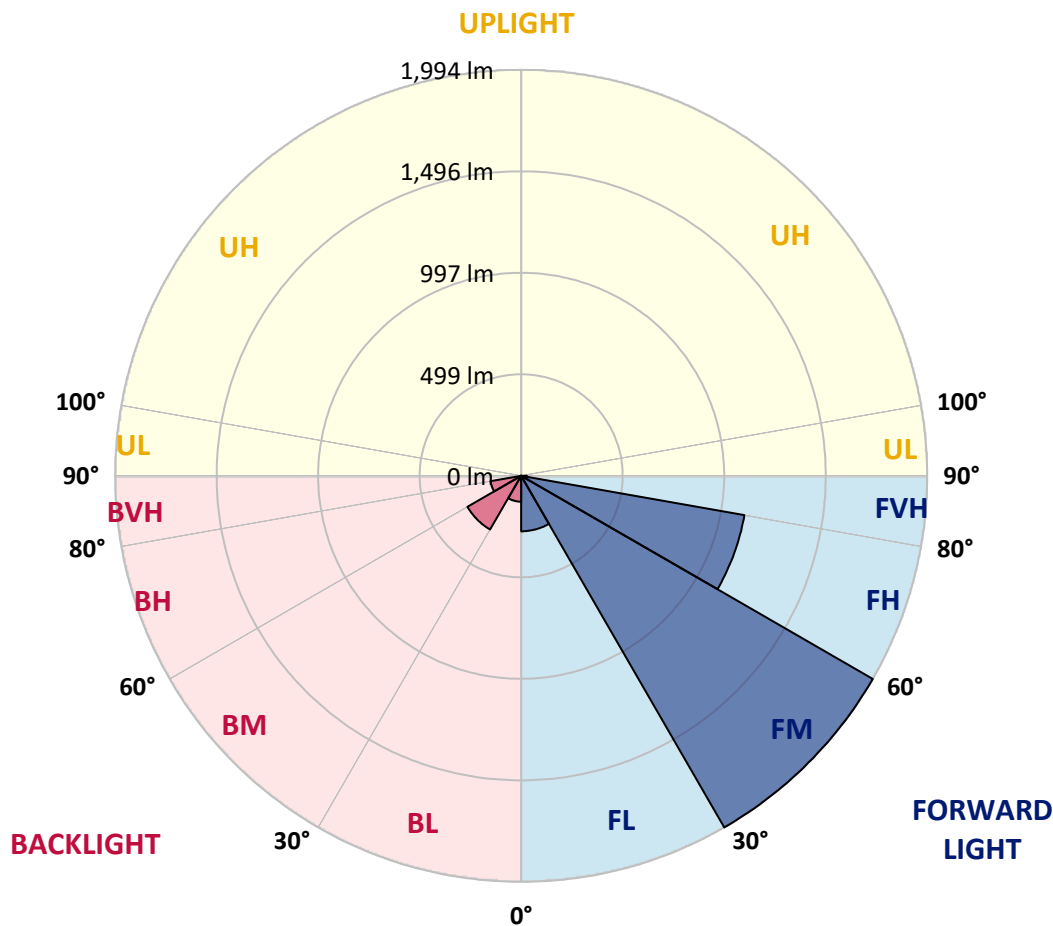
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	272.6	6.8			
FM	(30°-60°)	1994.0	49.9			
FH	(60°-80°)	1113.2	27.9			G1/1800
FVH	(80°-90°)	26.3	0.7			G1/100
BL	(0°-30°)	127.0	3.2	B1/500		
BM	(30°-60°)	304.6	7.6	B1/1000		
BH	(60°-80°)	153.2	3.8	B1/500		G1/500
BVH	(80°-90°)	2.1	0.1			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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	492.8	492.8	492.8	492.8	492.8	492.8	492.8	492.8	492.8	492.8	492.8
2.5°	504.3	503.0	504.9	504.1	503.5	502.4	501.9	501.3	500.2	499.4	496.1
5°	505.7	504.9	506.8	508.5	510.1	511.8	512.6	513.7	512.6	510.4	507.1
7.5°	494.2	493.6	497.8	502.7	510.1	516.4	523.3	527.1	527.4	526.6	523.0
10°	493.4	492.0	496.1	502.2	511.8	523.0	535.1	543.4	544.5	548.0	544.2
12.5°	506.3	504.9	510.7	517.3	527.1	539.0	553.8	565.3	567.0	571.9	569.2
15°	528.0	526.1	532.6	541.2	553.8	567.3	582.9	593.4	594.7	600.8	595.8
17.5°	553.2	551.3	559.0	568.1	581.8	600.2	618.3	629.9	631.5	635.4	626.3
20°	585.7	583.2	589.2	597.5	612.0	634.0	655.7	672.2	671.9	671.9	657.1
22.5°	623.3	619.4	624.7	631.3	645.0	671.6	700.5	720.0	720.0	712.3	687.8
25°	663.7	659.8	665.6	671.6	683.7	713.9	747.7	771.9	773.0	759.8	720.8
27.5°	714.2	709.3	713.7	720.8	728.0	758.7	798.8	826.8	827.4	807.1	752.1
30°	811.5	797.5	783.7	776.0	779.3	809.8	852.7	883.7	886.5	858.4	786.2
32.5°	989.5	986.7	938.4	875.2	842.2	864.8	912.8	950.2	951.8	915.8	830.4
35°	1266.1	1262.8	1185.1	1064.7	957.3	938.4	985.9	1030.1	1029.0	988.4	887.8
37.5°	1596.3	1593.3	1490.8	1329.8	1155.9	1049.6	1080.1	1126.5	1133.4	1080.1	962.0
40°	1878.4	1867.1	1802.3	1647.1	1419.6	1234.2	1214.2	1244.9	1252.1	1188.9	1056.2
42.5°	2092.1	2082.5	2049.5	1952.6	1738.9	1507.3	1372.1	1383.9	1391.9	1316.1	1164.5
45°	2202.8	2200.6	2213.8	2204.7	2064.1	1842.4	1597.9	1548.8	1551.8	1457.0	1287.2
47.5°	2218.5	2217.4	2277.5	2362.7	2343.7	2220.4	1887.7	1754.2	1743.5	1616.1	1420.7
50°	2126.2	2124.0	2239.4	2399.0	2530.5	2538.0	2216.8	1985.8	1962.2	1780.6	1560.0
52.5°	1831.4	1830.9	2020.4	2286.1	2596.2	2815.9	2542.1	2240.2	2200.6	1954.8	1707.3
55°	1409.2	1419.4	1636.7	1950.6	2476.4	2949.7	2834.1	2522.6	2461.9	2130.0	1843.0
57.5°	998.3	1013.1	1227.9	1507.6	2105.0	2870.6	3031.6	2805.5	2740.1	2304.7	1980.6
60°	536.2	549.4	764.5	1098.3	1566.1	2575.6	3135.7	3051.1	2989.3	2470.7	2104.8
62.5°	319.5	323.9	412.9	709.0	1059.2	1967.7	3091.5	3238.2	3187.3	2609.9	2212.7
65°	229.4	230.2	275.0	432.9	643.1	1195.5	2781.3	3327.7	3312.1	2714.9	2292.6
67.5°	193.1	192.6	211.2	287.6	438.1	598.8	2131.7	3201.1	3267.6	2781.3	2338.0
70°	165.6	166.5	188.4	210.7	329.4	339.0	1059.8	2787.1	2928.9	2798.9	2335.2
72.5°	123.3	126.1	146.4	192.0	248.6	233.2	365.9	2066.6	2322.9	2637.1	2214.1
75°	87.1	88.5	103.0	161.5	185.4	169.8	186.8	1068.3	1396.8	2021.8	1812.2
77.5°	67.0	69.5	78.0	112.9	182.7	119.2	114.3	369.7	568.1	1221.3	1242.5
80°	36.3	40.7	56.3	81.6	128.3	84.3	56.6	147.2	192.6	571.1	479.1
82.5°	18.7	20.9	39.3	58.8	73.1	73.6	28.0	61.3	79.4	176.4	65.7
85°	7.4	9.1	26.4	32.4	37.6	36.3	12.6	24.7	28.6	48.9	20.1
87.5°	1.6	2.7	9.6	7.4	7.1	7.7	3.0	5.8	5.5	5.8	3.6
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°	492.8	492.8	492.8	492.8	492.8	492.8	492.8	492.8	492.8	492.8	492.8
2.5°	495.8	494.7	491.7	488.4	484.6	482.4	481.0	480.7	478.8	477.4	478.8
5°	504.1	503.0	497.2	490.3	482.9	477.2	471.7	466.7	459.6	458.2	457.7
7.5°	520.6	517.5	508.2	498.9	484.8	468.1	447.8	424.4	403.5	397.2	394.2
10°	540.9	536.8	525.0	508.5	477.4	431.8	382.7	337.1	300.8	290.6	286.8
12.5°	564.0	560.4	544.7	514.2	446.4	363.7	288.4	231.8	196.7	187.9	185.4
15°	591.4	586.2	564.5	505.4	390.9	276.3	198.1	164.5	151.9	150.3	148.6
17.5°	620.5	612.0	582.1	473.9	316.2	196.4	153.0	143.4	137.9	136.3	135.4
20°	647.2	636.2	592.5	426.1	236.2	153.0	137.1	130.8	125.8	123.9	122.8
22.5°	673.8	658.2	592.5	361.0	177.2	135.7	125.8	120.0	114.3	111.8	110.4
25°	701.6	680.7	582.1	288.4	142.6	124.4	115.1	108.8	103.8	100.8	99.7
27.5°	728.5	699.7	558.2	219.8	126.9	114.5	105.2	99.2	94.5	92.3	92.3
30°	754.1	718.3	524.7	166.7	116.7	104.9	96.1	90.9	86.3	84.1	84.3
32.5°	788.7	742.0	489.0	136.8	108.0	95.9	87.9	83.0	78.8	77.2	77.2
35°	836.7	776.9	458.2	134.3	100.5	88.5	80.5	75.8	71.7	70.3	70.3
37.5°	904.9	833.2	442.0	150.8	94.5	81.9	74.4	69.5	65.7	64.6	64.3
40°	988.9	909.5	450.8	167.3	90.4	76.1	68.9	64.0	60.7	59.3	59.1
42.5°	1088.6	1003.8	499.4	179.9	87.6	71.1	63.7	58.2	56.0	55.5	55.5
45°	1203.2	1107.3	573.8	193.4	83.2	66.5	58.5	54.4	52.7	52.5	52.2
47.5°	1333.4	1221.0	660.1	210.1	78.8	62.1	54.4	51.6	50.3	49.7	49.7
50°	1462.5	1335.6	748.8	219.5	75.3	58.0	51.1	48.9	47.8	47.5	47.5
52.5°	1597.7	1453.4	820.5	210.7	72.2	54.7	48.3	46.7	45.6	45.3	45.3
55°	1726.5	1548.8	832.9	178.8	66.2	51.4	45.3	44.5	43.1	43.1	42.9
57.5°	1837.5	1596.6	745.5	131.3	60.2	46.4	42.3	41.5	40.4	40.1	39.8
60°	1939.4	1582.8	575.5	88.5	53.6	41.5	38.5	37.9	36.8	35.4	35.2
62.5°	1996.8	1522.4	393.6	57.7	47.0	36.3	34.1	33.8	31.3	28.6	28.0
65°	2018.5	1398.2	245.6	42.0	39.3	31.0	29.4	28.8	25.3	22.3	22.0
67.5°	1999.5	1193.8	123.9	33.2	31.0	25.8	24.2	24.2	21.7	19.0	18.7
70°	1923.7	895.0	52.2	26.6	23.9	19.8	19.8	20.9	18.4	15.4	15.1
72.5°	1759.2	602.1	27.7	20.3	17.9	14.0	16.2	17.0	14.6	11.5	11.5
75°	1398.5	367.3	19.2	15.1	11.3	9.9	12.4	12.9	9.9	7.7	7.4
77.5°	956.5	211.0	12.9	9.6	7.1	5.8	8.5	8.0	5.2	3.6	3.8
80°	420.0	87.9	7.4	4.4	2.7	2.2	3.0	2.2	1.6	1.1	1.1
82.5°	49.2	20.6	2.7	1.6	1.1	0.5	0.3	0.0	0.0	0.0	0.0
85°	10.2	2.5	1.4	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.9	0.5	0.3	0.0	0.0	0.0	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)