

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: P949494

Luminaire Tested: **GALN-SB4B-727-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949494
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4B-727-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17848 lumens
Efficiency: N/A
Efficacy: 121.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

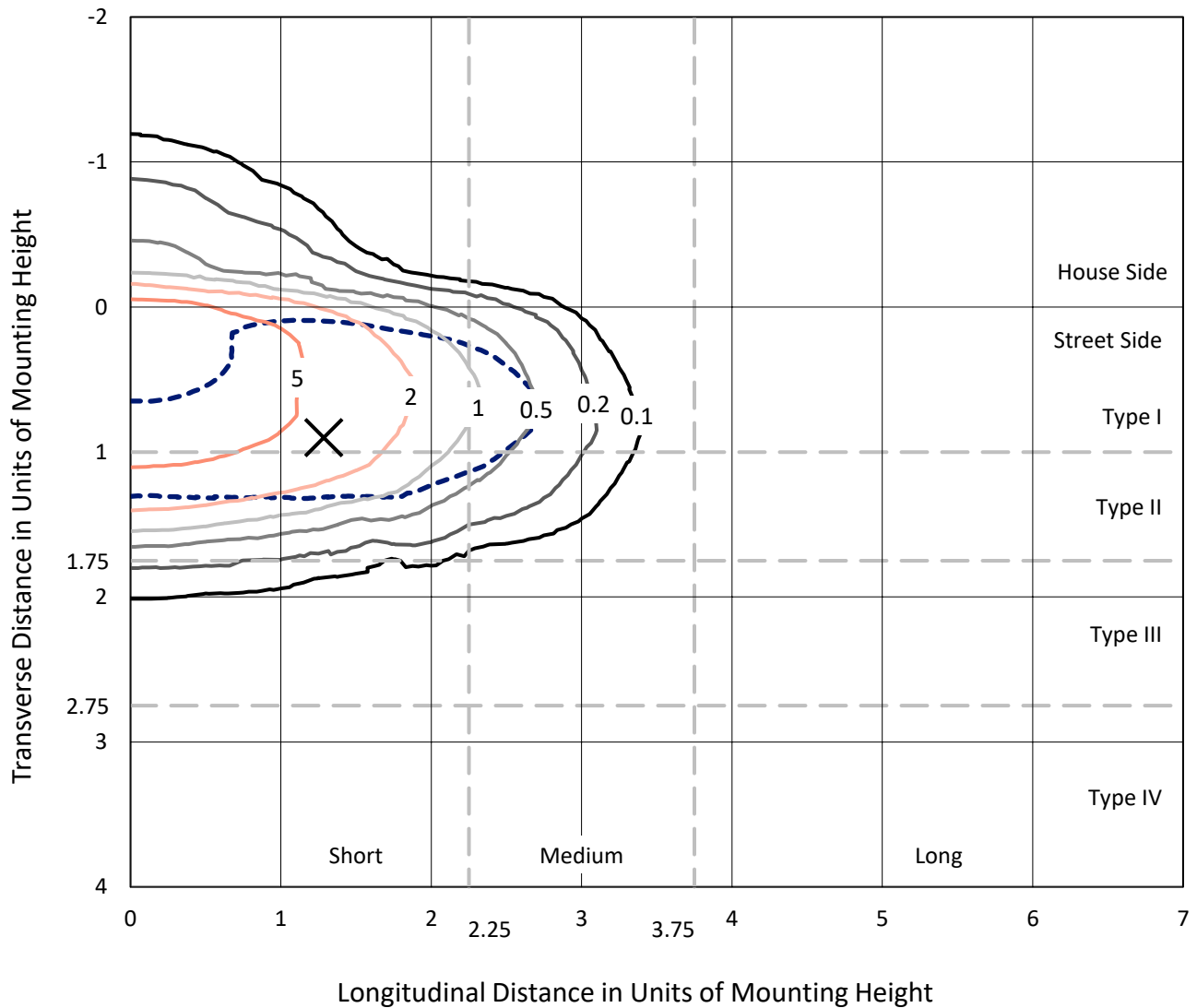
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

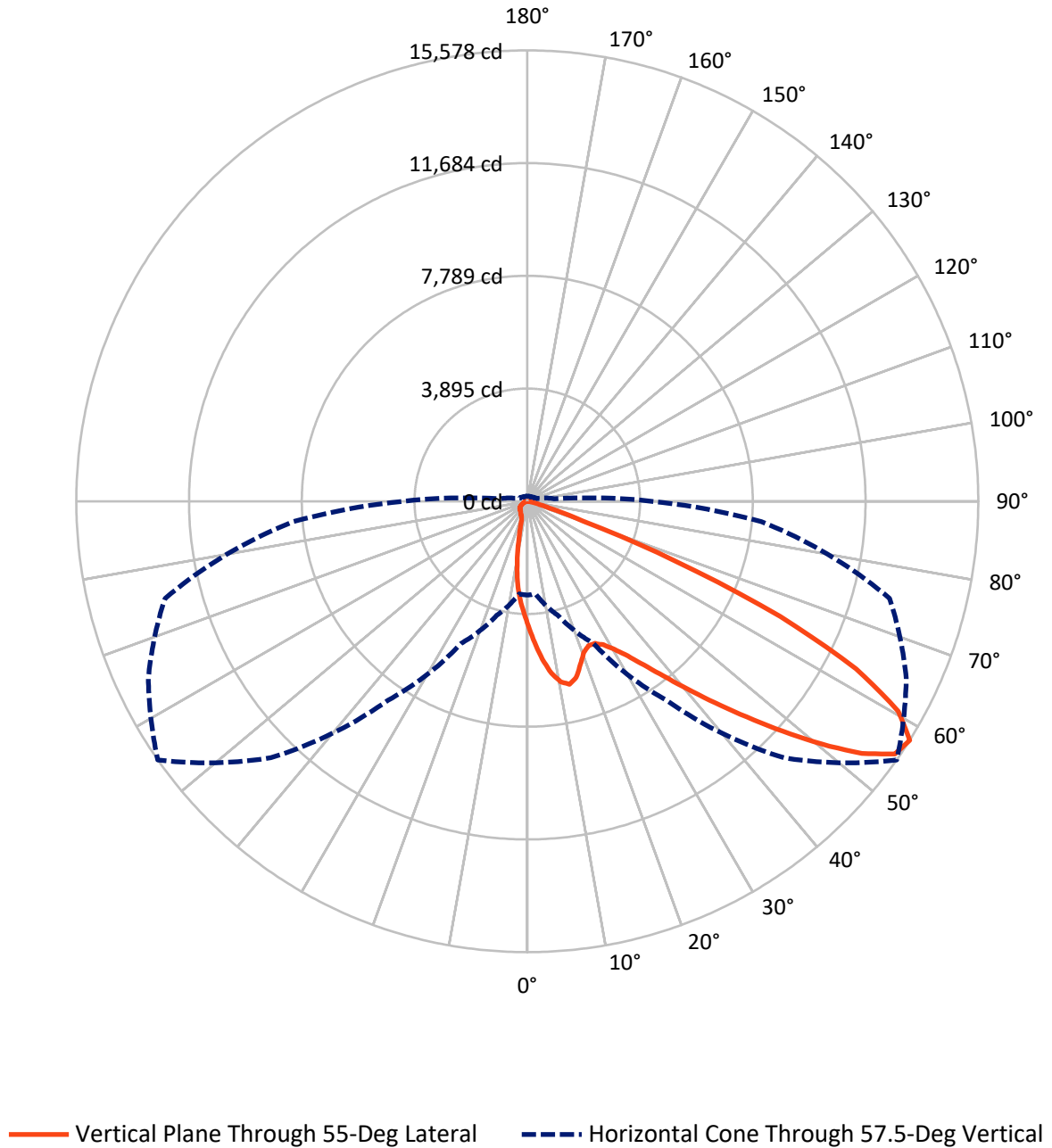
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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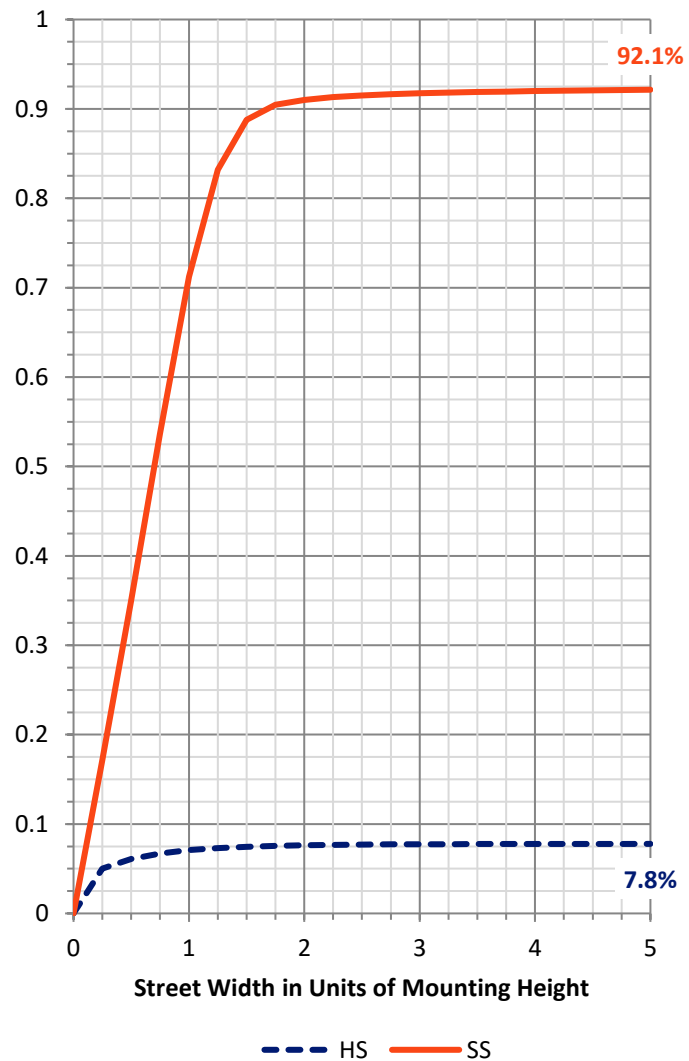
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1393.9	0.0	1393.9
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	16454.1	0.0	16454.1
	% Fixture	92.2	0.0	92.2
Total	Lumens	17848.0	0.0	17848.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	400.2	2.2
10°-20°	966.6	5.4
20°-30°	1546.6	8.7
30°-40°	2617.7	14.7
40°-50°	4297.7	24.1
50°-60°	4723.5	26.5
60°-70°	2709.4	15.2
70°-80°	553.6	3.1
80°-90°	32.7	0.2
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°	17848.0	100.0
0°-180°	17848.0	100.0

Coefficient of Utilization



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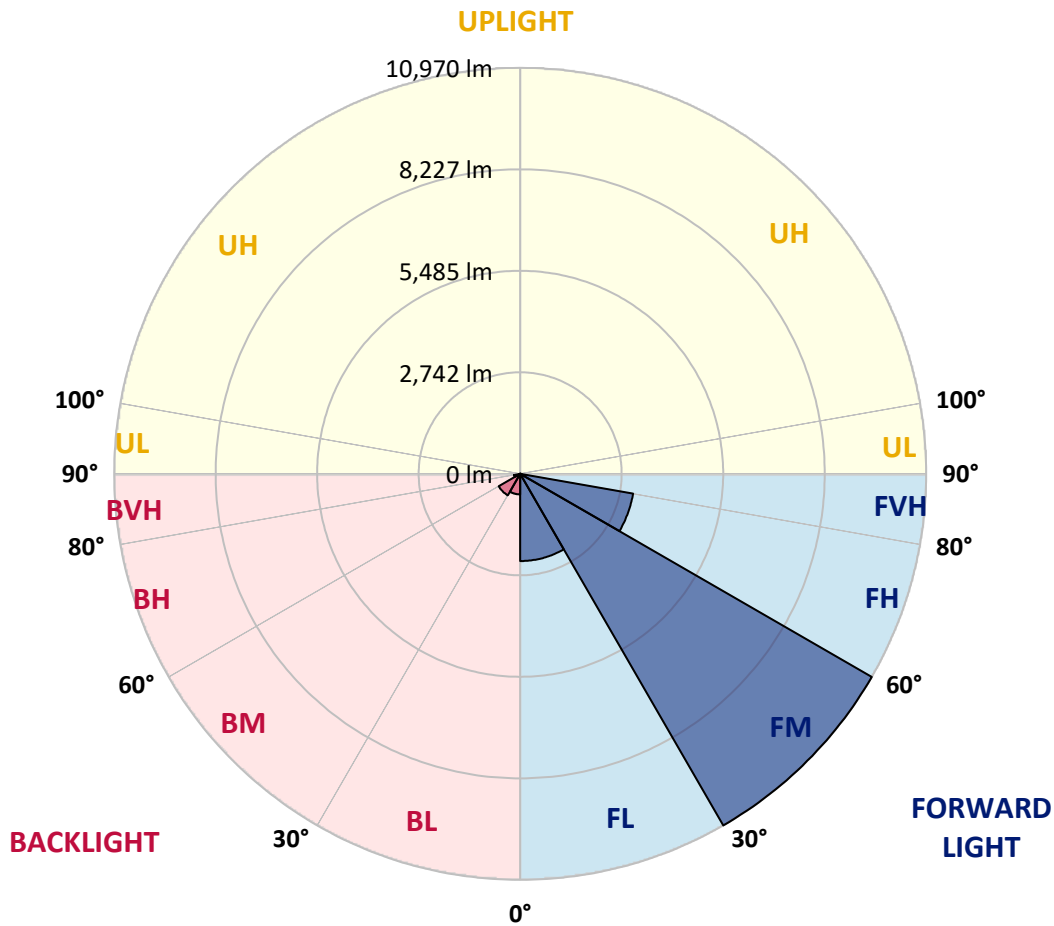
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2356.9	13.2			
FM (30°-60°)	10969.5	61.5			
FH (60°-80°)	3097.2	17.4			G2/5000
FVH (80°-90°)	30.5	0.2			G1/100
BL (0°-30°)	556.5	3.1	B2/1000		
BM (30°-60°)	669.4	3.8	B1/1000		
BH (60°-80°)	165.8	0.9	B1/500		G1/500
BVH (80°-90°)	2.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4300.9	4300.9	4300.9	4300.9	4300.9	4300.9	4300.9	4300.9	4300.9	4300.9	4300.9
2.5°	5336.5	5269.4	5259.5	5246.3	5118.6	5022.9	4884.2	4732.3	4561.8	4387.9	4310.8
5°	6165.3	6112.4	6102.5	6040.9	5895.6	5732.7	5486.2	5174.8	4856.7	4482.5	4321.8
7.5°	6325.9	6316.0	6361.1	6358.9	6339.1	6210.4	6002.4	5631.5	5153.9	4599.2	4350.5
10°	5609.5	5634.8	5769.1	5886.8	6204.9	6389.8	6344.6	6038.7	5459.8	4732.3	4382.4
12.5°	4956.9	4927.1	5022.9	5156.1	5525.8	6076.1	6486.6	6378.8	5809.8	4883.1	4429.7
15°	4547.5	4535.3	4589.3	4650.9	4932.6	5487.3	6321.5	6655.0	6146.5	5061.4	4501.2
17.5°	4416.5	4406.6	4423.1	4438.5	4621.2	5050.4	5928.6	6824.5	6469.0	5265.0	4580.5
20°	4523.2	4510.0	4507.8	4495.7	4571.7	4864.4	5573.2	6836.6	6758.4	5449.9	4648.7
22.5°	4834.7	4819.3	4765.4	4716.9	4723.5	4889.7	5414.7	6715.5	6976.4	5622.7	4691.6
25°	5399.3	5374.0	5261.7	5098.8	4995.4	5065.8	5438.9	6555.9	7184.4	5758.0	4670.7
27.5°	6105.8	6072.8	5928.6	5686.5	5449.9	5364.1	5613.9	6445.9	7357.1	5861.5	4625.6
30°	6798.1	6755.1	6613.2	6425.0	6079.4	5808.7	5929.7	6494.3	7562.9	5969.4	4566.2
32.5°	7545.3	7504.6	7316.4	7083.1	6797.0	6432.7	6362.2	6730.9	7815.0	6120.1	4524.3
35°	8490.7	8426.9	8159.4	7841.4	7537.6	7168.9	6947.7	7139.2	8150.6	6350.1	4547.5
37.5°	9567.0	9481.2	9192.8	8753.7	8357.5	7944.8	7660.9	7700.5	8642.6	6658.3	4619.0
40°	10581.7	10503.6	10237.3	9823.5	9326.0	8825.3	8522.6	8434.6	9321.6	7033.6	4744.4
42.5°	11190.3	11119.9	11007.6	10832.7	10413.4	9902.7	9520.8	9330.4	10125.0	7482.6	4897.4
45°	11224.5	11162.8	11313.6	11517.2	11434.7	11094.6	10629.1	10280.2	10931.7	7904.1	5055.9
47.5°	10678.6	10636.8	11094.6	11805.5	12159.9	12303.0	11873.8	11150.7	11597.5	8206.8	5120.8
50°	9190.6	9175.2	10117.3	11422.6	12436.2	13361.7	13186.7	11960.7	12113.7	8363.0	5059.2
52.5°	7969.0	7912.9	8462.1	10196.5	12034.5	13918.6	14470.0	12755.3	12474.7	8392.8	4915.0
55°	6044.2	5994.7	6683.6	8145.1	10739.1	13720.5	15408.7	13575.2	12733.3	8316.8	4656.4
57.5°	3242.2	3211.4	4081.9	5421.3	8395.0	12531.9	15578.2	14442.4	12951.2	8115.4	4294.3
60°	1262.3	1256.8	1582.6	2630.3	5102.1	10195.4	14723.1	14963.0	13087.7	7867.8	3991.7
62.5°	763.8	780.3	833.1	1180.9	2253.9	6333.6	12752.0	14370.9	13179.0	7641.1	3741.9
65°	631.7	632.8	639.4	811.1	1079.6	2650.1	9600.1	12422.9	12953.4	7237.2	3387.5
67.5°	541.5	551.4	576.7	643.8	761.6	1162.2	5526.9	9623.2	11581.0	6297.3	2835.0
70°	427.0	440.2	472.1	529.4	587.7	727.5	2042.6	6403.0	8847.3	4746.6	2143.9
72.5°	359.9	358.8	375.3	430.3	466.6	511.8	785.8	3587.8	5141.7	2266.0	1060.9
75°	278.4	289.4	310.4	359.9	381.9	370.9	425.9	1310.7	1842.3	686.7	361.0
77.5°	217.9	226.7	245.4	293.8	315.9	263.0	245.4	468.8	592.1	246.5	162.9
80°	97.9	105.7	167.3	216.8	257.5	181.6	133.2	239.9	263.0	112.3	82.5
82.5°	17.6	29.7	97.9	114.5	132.1	117.8	69.3	124.4	128.8	45.1	28.6
85°	1.1	2.2	34.1	41.8	52.8	38.5	20.9	49.5	42.9	15.4	11.0
87.5°	0.0	0.0	0.0	1.1	1.1	5.5	6.6	8.8	6.6	5.5	4.4
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4300.9	4300.9	4300.9	4300.9	4300.9	4300.9	4300.9	4300.9	4300.9	4300.9
2.5°	4231.6	4075.3	3923.4	3799.1	3726.4	3603.2	3521.7	3508.5	3474.4	3504.1
5°	4150.2	3870.6	3587.8	3334.7	3126.6	2858.1	2657.8	2573.1	2499.3	2524.6
7.5°	4111.6	3670.3	3230.1	2797.6	2353.0	1923.8	1604.6	1471.4	1370.2	1384.5
10°	4059.9	3462.3	2772.3	2111.9	1516.6	1092.8	872.7	791.3	746.2	747.3
12.5°	4020.3	3213.6	2240.7	1431.8	923.4	697.7	629.5	609.7	596.5	597.6
15°	4000.5	2920.8	1715.7	954.2	660.3	591.0	574.5	565.7	556.9	555.8
17.5°	3967.5	2595.1	1255.7	696.6	577.8	553.6	539.3	529.4	518.4	516.2
20°	3917.9	2225.3	917.9	588.8	541.5	522.8	502.9	489.7	476.5	474.3
22.5°	3826.6	1834.6	705.4	544.8	515.1	494.1	469.9	454.5	441.3	439.1
25°	3657.1	1468.1	594.3	517.3	491.9	466.6	440.2	419.3	407.2	405.0
27.5°	3442.5	1153.4	539.3	491.9	462.2	439.1	409.4	389.6	378.6	376.4
30°	3189.4	888.1	507.4	463.3	427.0	407.2	380.8	364.3	357.7	357.7
32.5°	2916.4	709.9	494.1	434.7	396.2	374.2	353.3	346.7	344.5	343.4
35°	2660.0	616.3	487.5	411.6	368.7	347.8	339.0	340.1	344.5	344.5
37.5°	2432.2	586.6	484.2	395.1	344.5	325.8	331.3	341.2	336.8	336.8
40°	2226.4	589.9	482.0	383.0	324.7	313.7	324.7	317.0	306.0	304.9
42.5°	2069.0	617.4	477.6	373.1	312.6	304.9	300.4	288.3	287.2	289.4
45°	1954.6	641.6	476.5	368.7	299.3	285.0	279.5	267.4	289.4	294.9
47.5°	1819.2	641.6	476.5	353.3	277.3	271.8	263.0	249.8	271.8	277.3
50°	1644.2	600.9	457.8	335.7	259.7	256.4	241.0	224.5	220.1	223.4
52.5°	1423.0	527.2	410.5	311.5	242.1	235.5	216.8	204.7	201.4	201.4
55°	1171.0	441.3	346.7	276.2	223.4	211.3	198.1	192.6	189.3	187.1
57.5°	952.0	362.1	278.4	245.4	205.8	190.4	186.0	179.4	173.9	170.6
60°	781.4	285.0	230.0	217.9	188.2	173.9	172.8	164.0	149.7	147.5
62.5°	603.1	209.1	193.7	189.3	170.6	158.5	156.3	138.7	116.7	112.3
65°	425.9	162.9	156.3	166.2	151.9	140.9	135.4	109.0	85.8	82.5
67.5°	299.3	136.5	123.3	145.3	132.1	117.8	114.5	92.4	71.5	69.3
70°	213.5	111.2	101.3	124.4	105.7	103.5	96.8	77.0	58.3	56.1
72.5°	150.8	84.7	78.1	107.9	72.6	89.1	79.2	59.4	44.0	41.8
75°	111.2	60.5	55.0	62.7	52.8	67.1	56.1	39.6	27.5	26.4
77.5°	81.4	38.5	33.0	30.8	30.8	41.8	30.8	16.5	12.1	11.0
80°	57.2	17.6	15.4	13.2	12.1	9.9	4.4	2.2	1.1	1.1
82.5°	34.1	7.7	7.7	5.5	3.3	0.0	0.0	0.0	0.0	0.0
85°	7.7	3.3	3.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.1	1.1	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

(END OF REPORT)