

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: P955576

Luminaire Tested: **GALN-SB8C-727-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955576
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-SB8C-727-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42927 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 399.8
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



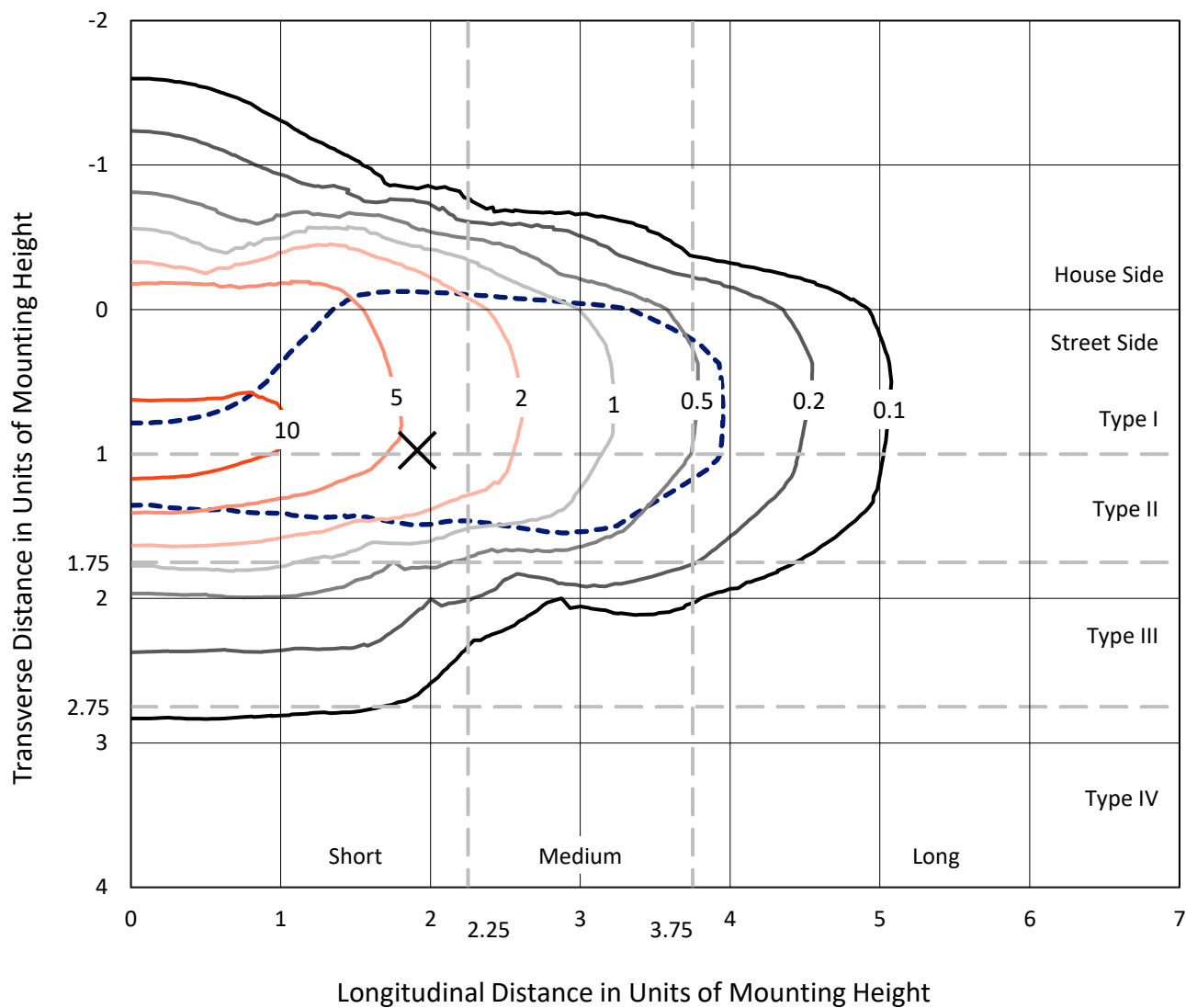
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

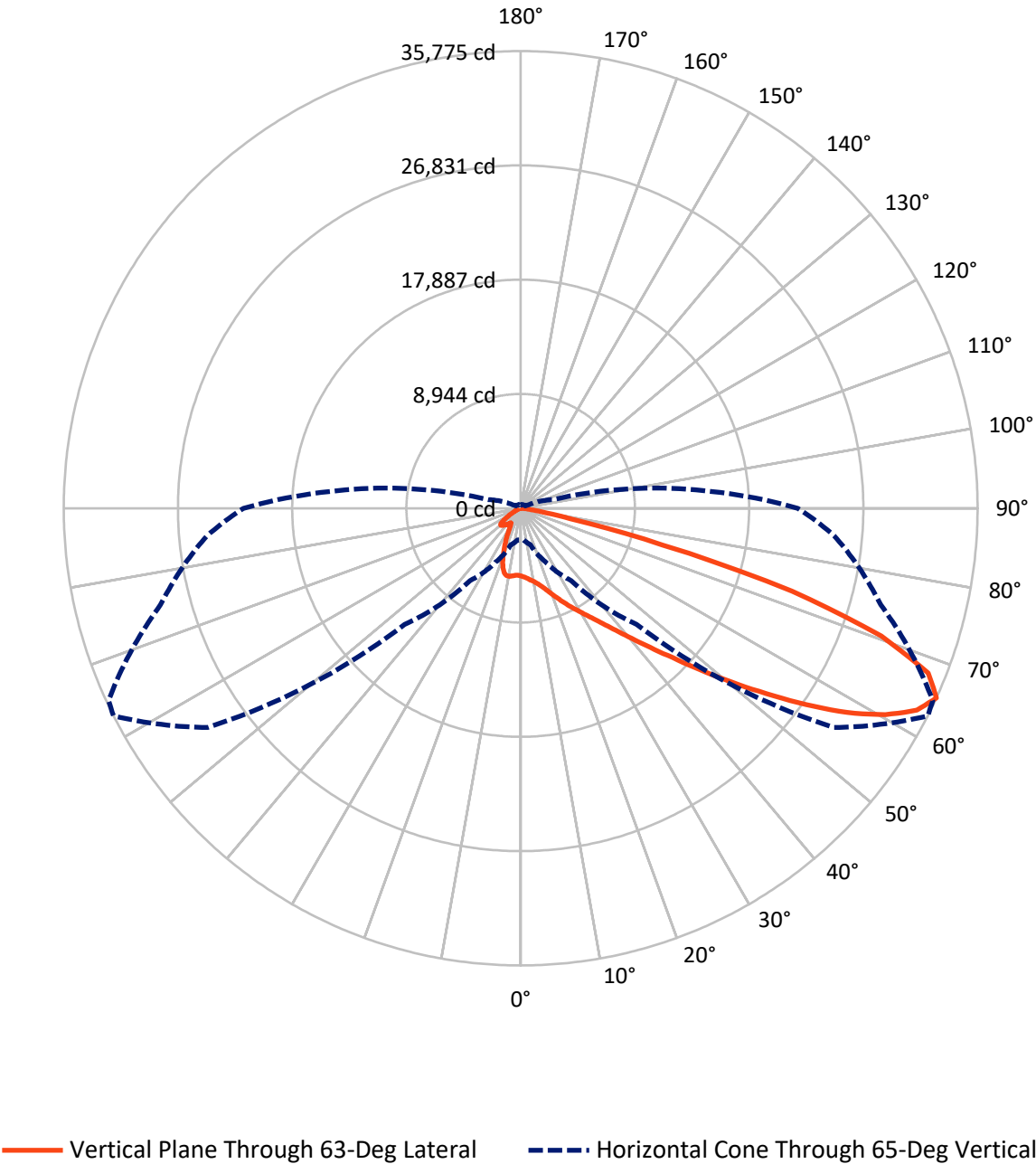
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.5 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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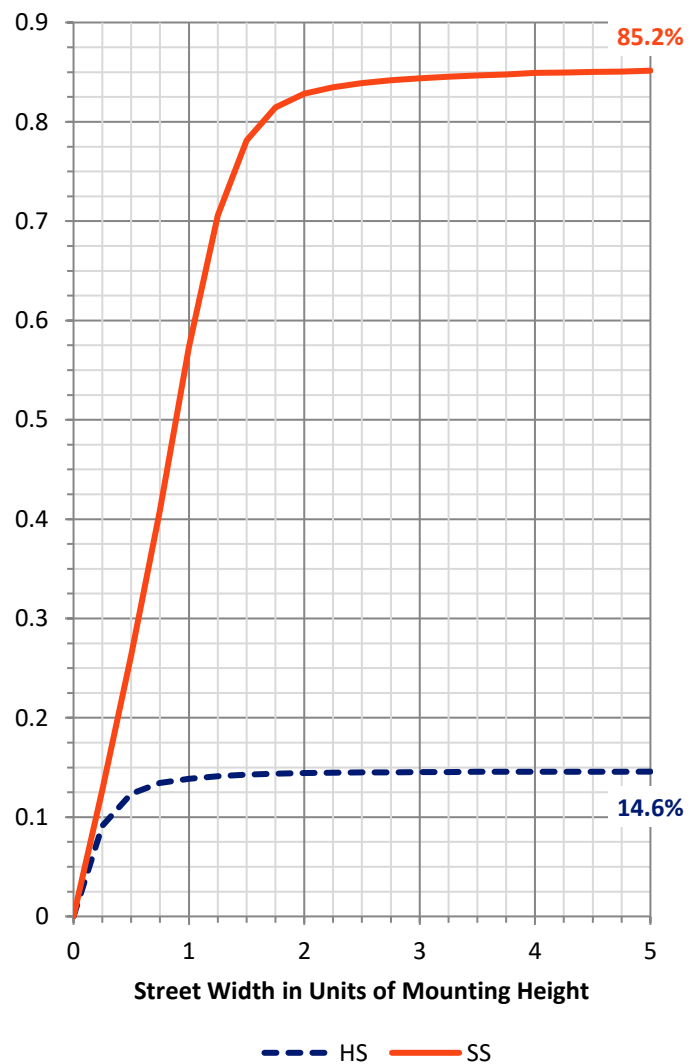
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6309.9	0.0	6309.9
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	36617.1	0.0	36617.1
	% Fixture	85.3	0.0	85.3
Total	Lumens	42927.0	0.0	42927.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	499.2	1.2
10°-20°	1385.0	3.2
20°-30°	2411.7	5.6
30°-40°	4346.8	10.1
40°-50°	8621.0	20.1
50°-60°	11743.3	27.4
60°-70°	9373.4	21.8
70°-80°	4241.7	9.9
80°-90°	304.9	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°	42927.0	100.0
0°-180°	42927.0	100.0

Coefficient of Utilization



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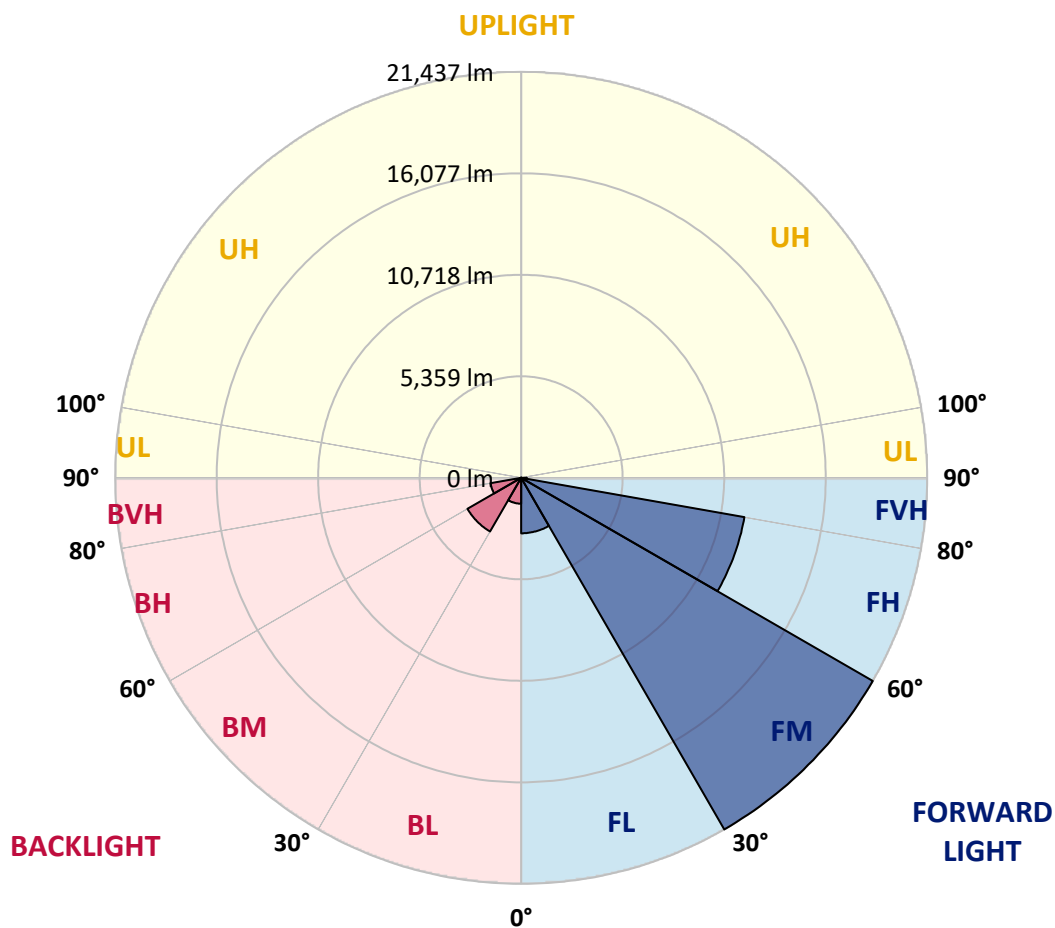
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2930.3	6.8			
FM	(30°-60°)	21436.7	49.9			
FH	(60°-80°)	11967.8	27.9			G4/12000
FVH	(80°-90°)	282.3	0.7			G3/500
BL	(0°-30°)	1365.6	3.2	B3/2500		
BM	(30°-60°)	3274.5	7.6	B3/5000		
BH	(60°-80°)	1647.3	3.8	B3/2500		G3/2500
BVH	(80°-90°)	22.6	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	5298.0	5298.0	5298.0	5298.0	5298.0	5298.0	5298.0	5298.0	5298.0	5298.0	5298.0
2.5°	5422.0	5407.3	5427.9	5419.1	5413.2	5401.4	5395.5	5389.6	5377.7	5368.9	5333.4
5°	5436.8	5427.9	5448.6	5466.3	5484.1	5501.8	5510.6	5522.4	5510.6	5487.0	5451.6
7.5°	5312.8	5306.9	5351.2	5404.3	5484.1	5552.0	5625.8	5667.2	5670.1	5661.2	5622.9
10°	5303.9	5289.1	5333.4	5398.4	5501.8	5622.9	5752.8	5841.4	5853.2	5891.6	5850.2
12.5°	5442.7	5427.9	5490.0	5560.8	5667.2	5794.1	5953.6	6077.6	6095.4	6148.5	6119.0
15°	5676.0	5655.3	5726.2	5817.8	5953.6	6098.3	6266.6	6378.9	6393.6	6458.6	6405.4
17.5°	5947.7	5927.0	6009.7	6107.2	6254.8	6452.7	6647.6	6771.6	6789.4	6830.7	6733.2
20°	6296.2	6269.6	6334.6	6423.2	6579.7	6815.9	7049.2	7226.4	7223.5	7223.5	7064.0
22.5°	6700.8	6659.4	6715.5	6786.4	6934.1	7220.5	7530.6	7740.3	7740.3	7657.6	7394.8
25°	7134.9	7093.5	7155.6	7220.5	7350.5	7675.3	8038.6	8298.4	8310.2	8168.5	7749.1
27.5°	7678.3	7625.1	7672.4	7749.1	7825.9	8156.7	8587.8	8889.1	8895.0	8676.4	8085.8
30°	8723.7	8573.1	8425.4	8342.7	8378.2	8706.0	9166.7	9500.4	9529.9	9228.7	8452.0
32.5°	10637.4	10607.8	10088.1	9408.8	9054.4	9296.6	9813.4	10215.0	10232.8	9845.9	8927.5
35°	13611.2	13575.8	12740.0	11446.5	10291.8	10088.1	10599.0	11074.4	11062.6	10625.5	9544.7
37.5°	17160.9	17128.4	16026.9	14296.3	12427.0	11284.1	11611.9	12111.0	12184.8	11611.9	10342.0
40°	20193.8	20072.8	19375.8	17707.3	15262.0	13268.6	13053.1	13383.8	13460.6	12781.4	11355.0
42.5°	22491.4	22388.0	22033.7	20991.2	18693.6	16204.1	14751.1	14878.1	14963.8	14148.7	12518.5
45°	23681.5	23657.9	23799.7	23702.2	22190.2	19807.0	17178.6	16650.0	16682.5	15663.7	13838.6
47.5°	23849.9	23838.1	24484.8	25400.3	25196.5	23870.5	20294.2	18859.0	18743.8	17373.6	15273.8
50°	22857.6	22834.0	24074.3	25790.1	27204.7	27284.4	23832.2	21348.5	21094.6	19142.5	16771.1
52.5°	19688.8	19682.9	21720.6	24576.4	27910.5	30273.0	27328.7	24083.2	23657.9	21014.8	18354.0
55°	15149.8	15259.1	17595.0	20970.5	26622.9	31711.2	30467.9	27119.0	26466.4	22898.9	19812.9
57.5°	10731.9	10891.3	13200.7	16207.0	22630.2	30860.7	32591.3	30160.8	29458.0	24777.2	21292.4
60°	5764.6	5906.4	8218.7	11806.8	16836.1	27689.0	33710.5	32801.0	32136.5	26560.9	22627.3
62.5°	3434.5	3481.8	4438.6	7622.2	11387.5	21153.6	33235.1	34812.1	34265.7	28058.2	23787.9
65°	2465.9	2474.8	2956.1	4654.2	6913.4	12852.2	29900.9	35774.8	35606.5	29186.3	24647.2
67.5°	2076.1	2070.2	2271.0	3092.0	4710.3	6437.9	22916.7	34413.4	35128.1	29900.9	25134.5
70°	1780.8	1789.6	2025.9	2265.1	3540.9	3644.2	11393.4	29963.0	31486.8	30089.9	25105.0
72.5°	1326.0	1355.5	1574.0	2064.3	2672.6	2507.2	3933.6	22216.8	24972.1	28350.5	23802.6
75°	936.2	950.9	1107.4	1736.5	1993.4	1825.1	2008.2	11484.9	15016.9	21735.4	19482.1
77.5°	720.6	747.2	838.7	1213.8	1963.9	1281.7	1228.5	3975.0	6107.2	13129.8	13357.2
80°	389.8	437.1	605.4	877.1	1379.1	906.6	608.4	1582.9	2070.2	6139.7	5150.3
82.5°	200.8	224.4	422.3	632.0	785.5	791.5	301.2	658.6	853.5	1895.9	705.8
85°	79.7	97.5	283.5	348.5	404.6	389.8	135.8	265.8	307.1	525.7	215.6
87.5°	17.7	29.5	103.4	79.7	76.8	82.7	32.5	62.0	59.1	62.0	38.4
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5298.0	5298.0	5298.0	5298.0	5298.0	5298.0	5298.0	5298.0	5298.0	5298.0	5298.0
2.5°	5330.5	5318.7	5286.2	5250.8	5209.4	5185.8	5171.0	5168.1	5147.4	5132.6	5147.4
5°	5419.1	5407.3	5345.3	5271.4	5191.7	5129.7	5070.6	5017.5	4940.7	4925.9	4920.0
7.5°	5596.3	5563.8	5463.4	5363.0	5212.4	5032.2	4813.7	4562.7	4338.2	4270.3	4237.8
10°	5814.8	5770.5	5643.5	5466.3	5132.6	4642.4	4113.8	3623.6	3233.7	3124.5	3083.1
12.5°	6062.9	6024.5	5856.2	5528.4	4798.9	3910.0	3100.8	2492.5	2114.5	2020.0	1993.4
15°	6358.2	6302.1	6068.8	5433.8	4202.4	2970.9	2129.2	1769.0	1633.1	1615.4	1597.7
17.5°	6671.2	6579.7	6257.8	5094.2	3399.1	2111.5	1644.9	1541.6	1482.5	1464.8	1455.9
20°	6957.7	6839.6	6370.0	4580.4	2539.7	1644.9	1473.6	1405.7	1352.6	1331.9	1320.1
22.5°	7244.1	7075.8	6370.0	3880.5	1904.8	1458.9	1352.6	1290.5	1228.5	1201.9	1187.2
25°	7542.4	7318.0	6257.8	3100.8	1532.7	1337.8	1237.4	1169.5	1116.3	1083.8	1072.0
27.5°	7831.8	7521.7	6000.9	2362.5	1364.4	1231.5	1131.1	1066.1	1015.9	992.3	992.3
30°	8106.5	7722.6	5640.6	1792.6	1255.1	1128.1	1033.6	977.5	927.3	903.7	906.6
32.5°	8478.6	7976.5	5256.7	1470.7	1160.6	1030.7	945.0	891.9	847.6	829.8	829.8
35°	8995.4	8351.6	4925.9	1444.1	1080.9	950.9	865.3	815.1	770.8	756.0	756.0
37.5°	9727.8	8957.0	4751.7	1621.3	1015.9	880.0	800.3	747.2	705.8	694.0	691.0
40°	10631.4	9778.0	4846.2	1798.5	971.6	818.0	741.2	688.1	652.7	637.9	634.9
42.5°	11703.4	10790.9	5368.9	1934.3	942.1	764.9	685.1	626.1	602.4	596.5	596.5
45°	12934.9	11904.3	6169.2	2079.0	894.8	714.7	629.0	584.7	567.0	564.1	561.1
47.5°	14334.7	13126.9	7096.5	2259.2	847.6	667.4	584.7	555.2	540.4	534.5	534.5
50°	15722.7	14358.4	8050.4	2359.6	809.2	623.1	549.3	525.7	513.9	510.9	510.9
52.5°	17175.7	15625.3	8821.1	2265.1	776.7	587.7	519.8	502.0	490.2	487.3	487.3
55°	18560.7	16650.0	8954.0	1922.5	711.7	552.2	487.3	478.4	463.6	463.6	460.7
57.5°	19753.8	17163.9	8014.9	1411.6	646.7	499.1	454.8	445.9	434.1	431.2	428.2
60°	20849.4	17016.2	6186.9	950.9	575.9	445.9	413.4	407.5	395.7	381.0	378.0
62.5°	21466.7	16366.5	4231.9	620.2	505.0	389.8	366.2	363.2	336.7	307.1	301.2
65°	21700.0	15031.7	2640.1	451.8	422.3	333.7	316.0	310.1	271.7	239.2	236.3
67.5°	21496.2	12834.5	1331.9	357.3	333.7	277.6	259.9	259.9	233.3	203.8	200.8
70°	20681.1	9621.5	561.1	286.5	256.9	212.6	212.6	224.4	197.9	165.4	162.4
72.5°	18912.2	6473.4	298.3	218.5	192.0	150.6	174.2	183.1	156.5	124.0	124.0
75°	15034.6	3948.4	206.7	162.4	121.1	106.3	132.9	138.8	106.3	82.7	79.7
77.5°	10283.0	2268.0	138.8	103.4	76.8	62.0	91.5	85.6	56.1	38.4	41.3
80°	4515.4	945.0	79.7	47.3	29.5	23.6	32.5	23.6	17.7	11.8	11.8
82.5°	528.6	221.5	29.5	17.7	11.8	5.9	3.0	0.0	0.0	0.0	0.0
85°	109.3	26.6	14.8	5.9	3.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	20.7	5.9	3.0	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)