

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: P943157

Luminaire Tested: **GALN-SB7C-730-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943157
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7C-730-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53296 lumens
Efficiency: N/A
Efficacy: 152.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 350.5
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

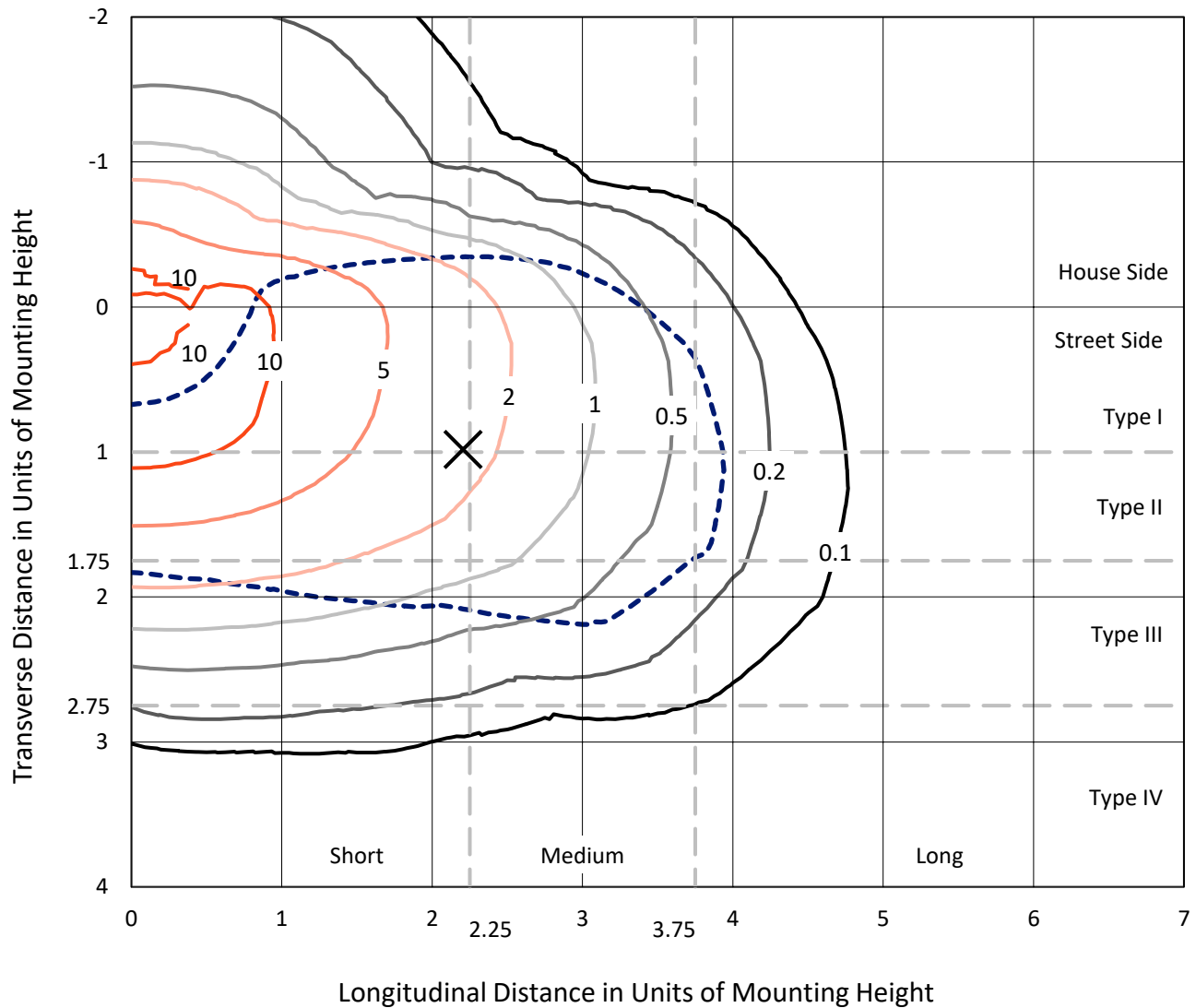


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

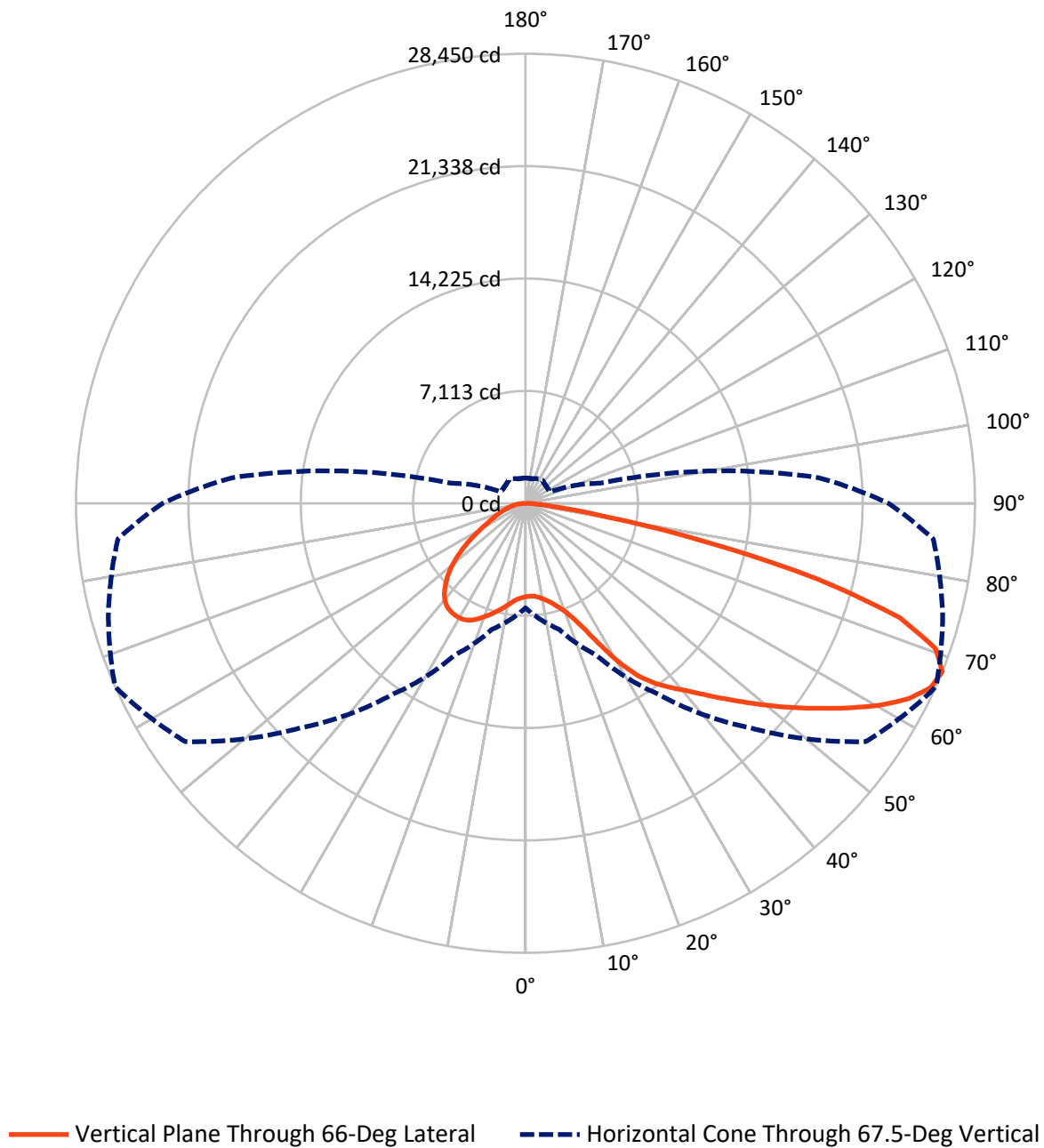


Based on 25 foot mounting height. Maximum calculated value = 13.4 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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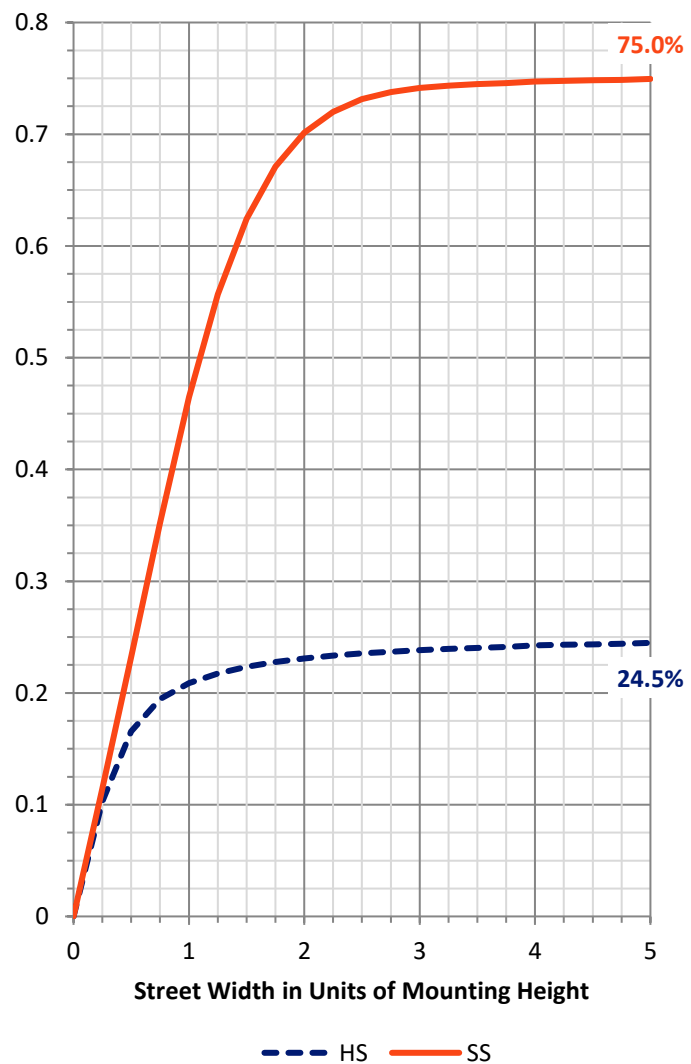
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13251.9	0.0	13251.9
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	40044.1	0.0	40044.1
	% Fixture	75.1	0.0	75.1
Total	Lumens	53296.0	0.0	53296.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	586.1	1.1
10°-20°	1936.3	3.6
20°-30°	3732.1	7.0
30°-40°	6543.8	12.3
40°-50°	9728.5	18.3
50°-60°	12331.8	23.1
60°-70°	12066.4	22.6
70°-80°	5755.8	10.8
80°-90°	615.1	1.2
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°	53296.0	100.0
0°-180°	53296.0	100.0

Coefficient of Utilization



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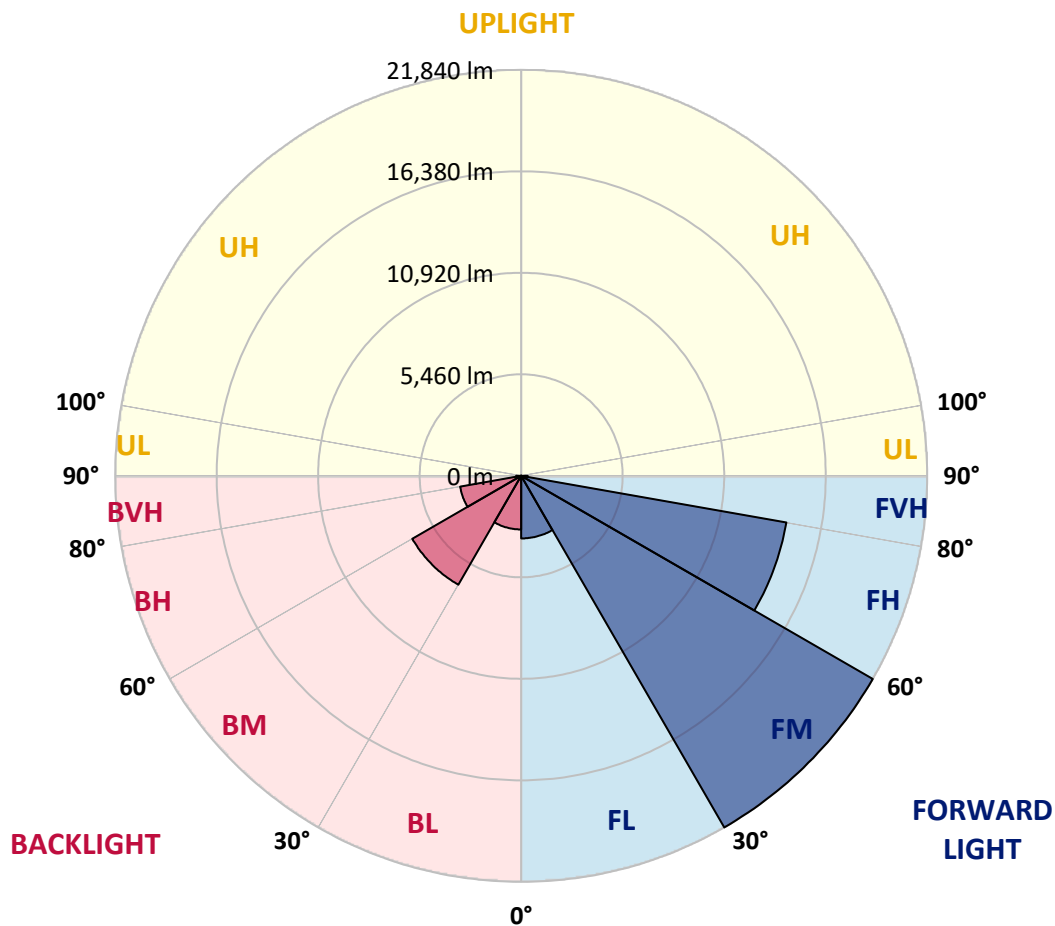
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3367.8	6.3			
FM	(30°-60°)	21840.2	41.0			
FH	(60°-80°)	14487.3	27.2			G5
FVH	(80°-90°)	348.8	0.7			G3/500
BL	(0°-30°)	2886.7	5.4	B4/5000		
BM	(30°-60°)	6763.9	12.7	B4/8500		
BH	(60°-80°)	3334.9	6.3	B4/5000		G4/5000
BVH	(80°-90°)	266.4	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5911.2	5911.2	5911.2	5911.2	5911.2	5911.2	5911.2	5911.2	5911.2	5911.2	5911.2
2.5°	5849.6	5883.2	5874.8	5860.8	5858.0	5863.6	5872.0	5880.4	5877.6	5891.6	5914.0
5°	5832.8	5866.4	5863.6	5863.6	5874.8	5897.2	5911.2	5925.2	5911.2	5928.0	5958.8
7.5°	5844.0	5869.2	5880.4	5891.6	5919.6	5961.6	5995.2	6026.0	6009.2	6028.8	6068.0
10°	5986.8	6006.4	6017.6	6017.6	6037.2	6084.8	6118.4	6174.4	6160.4	6191.3	6241.7
12.5°	6247.3	6266.9	6266.9	6255.7	6269.7	6300.5	6311.7	6373.3	6348.1	6398.5	6448.9
15°	6566.5	6605.7	6574.9	6555.3	6560.9	6591.7	6588.9	6636.5	6611.3	6653.3	6698.1
17.5°	6919.3	6969.7	6919.3	6916.5	6905.3	6938.9	6941.7	6983.7	6938.9	6969.7	7000.5
20°	7336.5	7406.5	7364.5	7378.5	7353.3	7367.3	7381.3	7442.9	7372.9	7395.3	7386.9
22.5°	7924.6	8008.6	7963.8	8017.0	8000.2	7989.0	7986.2	8095.4	7986.2	7994.6	7913.4
25°	8781.4	8882.2	8803.8	8876.6	8876.6	8913.0	8955.1	9095.1	8913.0	8859.8	8649.8
27.5°	10047.1	10147.9	9993.9	10038.7	10024.7	10114.3	10069.5	10416.8	10220.7	10133.9	9711.1
30°	11570.4	11749.7	11458.4	11447.2	11433.2	11576.0	11640.4	11870.1	11671.3	11584.4	11074.8
32.5°	13217.0	13404.6	13057.4	12956.5	12903.3	12990.1	12936.9	13121.8	12984.5	12850.1	12220.1
35°	14958.7	15143.5	14813.1	14617.1	14404.2	14222.2	14031.8	14079.4	13950.6	13746.2	13093.8
37.5°	16605.2	16944.0	16594.0	16384.0	15992.0	15636.3	15104.3	14883.1	14762.7	14575.1	13917.0
40°	18282.5	18475.7	18209.7	18030.5	17604.9	17047.6	16196.4	15728.7	15566.3	15384.3	14827.1
42.5°	19517.4	19702.2	19559.4	19436.2	19103.0	18456.1	17355.7	16770.4	16535.2	16330.8	15857.6
45°	20497.5	20634.7	20545.1	20589.9	20447.1	19819.8	18557.0	17887.7	17644.1	17394.9	17022.4
47.5°	20892.3	21037.9	21180.7	21446.8	21690.4	21228.3	19847.8	19097.4	18839.8	18585.0	18218.1
50°	20847.5	20995.9	21410.4	21976.0	22732.1	22578.0	21208.7	20385.5	20147.5	19856.2	19517.4
52.5°	20489.1	20657.1	21189.1	22130.0	23334.1	23588.9	22594.8	21715.6	21491.6	21144.3	20805.5
55°	19548.2	19649.0	20447.1	21780.0	23476.9	24294.6	23952.9	23132.5	22908.5	22424.0	22054.4
57.5°	17803.7	17949.3	19111.4	20836.3	23118.5	24773.4	25145.8	24622.2	24406.6	23709.3	23322.9
60°	15527.1	15759.5	17089.6	19251.4	22205.6	24770.6	26229.5	26086.7	25907.5	24975.0	24571.8
62.5°	12950.9	13219.8	14499.5	17011.2	20609.5	24067.8	26907.2	27313.2	27220.8	26142.7	25627.5
65°	9946.3	10131.1	11405.2	14113.0	18125.7	22558.4	26985.6	28150.5	28167.3	27030.4	26179.1
67.5°	6622.5	7154.5	8260.6	10590.4	14799.1	20091.5	26296.7	28287.7	28450.1	27335.6	25901.9
70°	3231.4	3931.5	5015.2	6882.9	10590.4	16308.4	24496.2	27162.0	27523.2	26445.1	24249.8
72.5°	1341.3	1568.1	2159.0	3396.6	6079.2	11004.8	20878.3	24109.8	24779.0	23432.1	20388.3
75°	904.5	980.1	1234.9	1741.7	2769.4	5426.8	15056.7	17977.3	19055.4	17697.3	14465.9
77.5°	697.3	744.9	898.9	1218.1	1646.5	2052.5	8059.0	10834.0	11391.2	10545.6	7526.9
80°	548.8	585.2	672.0	887.7	1167.7	1097.7	2747.0	4908.8	5230.8	4387.9	2419.4
82.5°	476.0	490.0	481.6	602.0	775.7	641.2	901.7	1811.7	1999.3	1450.5	789.7
85°	344.4	383.6	400.4	372.4	411.6	324.8	369.6	641.2	705.7	630.0	445.2
87.5°	140.0	207.2	254.8	240.8	151.2	92.4	114.8	187.6	215.6	235.2	145.6
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°	5911.2	5911.2	5911.2	5911.2	5911.2	5911.2	5911.2	5911.2	5911.2	5911.2	5911.2
2.5°	5916.8	5936.4	5950.4	5967.2	5978.4	5995.2	6028.8	6048.4	6051.2	6065.2	6062.4
5°	5970.0	5998.0	6028.8	6073.6	6124.0	6166.0	6230.5	6275.3	6292.1	6306.1	6303.3
7.5°	6084.8	6124.0	6180.1	6258.5	6331.3	6387.3	6465.7	6518.9	6572.1	6591.7	6594.5
10°	6255.7	6311.7	6392.9	6499.3	6577.7	6650.5	6731.7	6776.5	6829.7	6852.1	6863.3
12.5°	6468.5	6527.3	6633.7	6782.1	6854.9	6905.3	6933.3	6922.1	6933.3	6952.9	6958.5
15°	6712.1	6776.5	6896.9	7056.5	7106.9	7062.1	7000.5	6944.5	6936.1	6941.7	6961.3
17.5°	7000.5	7048.1	7188.1	7322.5	7286.1	7101.3	6966.9	6877.3	6832.5	6818.5	6838.1
20°	7403.7	7403.7	7518.5	7602.6	7358.9	7045.3	6835.3	6689.7	6597.3	6558.1	6549.7
22.5°	7893.8	7849.0	7921.8	7863.0	7344.9	6888.5	6597.3	6345.3	6205.3	6149.2	6140.8
25°	8515.4	8462.2	8442.6	8078.6	7244.1	6639.3	6166.0	5860.8	5737.6	5706.8	5712.4
27.5°	9453.5	9319.1	9064.3	8196.2	7059.3	6247.3	5662.0	5379.2	5309.2	5312.0	5320.4
30°	10702.4	10433.6	9809.1	8215.8	6756.9	5692.8	5146.8	4945.2	4911.6	4925.6	4973.2
32.5°	11858.9	11604.0	10570.8	8126.2	6292.1	5149.6	4684.7	4550.3	4499.9	4516.7	4539.1
35°	12766.1	12696.1	11276.4	8000.2	5720.8	4639.9	4270.3	4155.5	4057.5	4035.1	4051.9
37.5°	13623.0	13595.0	11805.7	7823.8	5155.2	4278.7	3937.1	3785.9	3643.1	3564.7	3567.5
40°	14563.9	14535.9	12152.9	7552.2	4653.9	3965.1	3637.5	3438.7	3262.2	3119.4	3133.4
42.5°	15622.3	15457.1	12318.1	7162.9	4228.3	3699.1	3393.8	3125.0	2892.6	2761.0	2769.4
45°	16778.8	16406.4	12315.3	6667.3	3869.9	3455.5	3133.4	2752.6	2537.0	2413.8	2408.2
47.5°	18005.3	17313.7	12164.1	6118.4	3522.7	3186.6	2730.2	2439.0	2296.2	2220.6	2203.8
50°	19271.0	18162.1	11906.5	5488.4	3167.0	2881.4	2478.2	2279.4	2170.2	2100.2	2075.0
52.5°	20461.1	18932.2	11595.6	4774.3	2805.8	2584.6	2366.2	2212.2	2097.4	2018.9	1985.3
55°	21567.2	19595.8	11156.0	4043.5	2511.8	2385.8	2313.0	2184.2	2052.5	1960.1	1923.7
57.5°	22550.0	20027.1	10397.2	3357.4	2301.8	2248.6	2257.0	2136.6	1985.3	1906.9	1856.5
60°	23367.7	20343.5	9274.3	2721.8	2131.0	2114.2	2170.2	2046.9	1870.5	1780.9	1741.7
62.5°	23857.7	20337.9	7896.6	2229.0	1985.3	1990.9	2055.3	1934.9	1755.7	1671.7	1646.5
65°	23815.7	19839.4	6384.5	1906.9	1845.3	1850.9	1934.9	1811.7	1660.5	1610.1	1607.3
67.5°	22972.9	18624.2	4897.6	1696.9	1691.3	1716.5	1814.5	1727.7	1601.7	1596.1	1604.5
70°	20690.7	16101.2	3528.3	1528.9	1531.7	1568.1	1696.9	1674.5	1570.9	1582.1	1579.3
72.5°	16591.2	12276.1	2369.0	1352.5	1355.3	1414.1	1584.9	1632.5	1540.1	1688.5	1710.9
75°	11049.6	7655.8	1523.3	1164.9	1167.7	1243.3	1486.9	1551.3	1456.1	1682.9	1696.9
77.5°	5309.2	3441.5	1103.3	980.1	980.1	1050.1	1285.3	1388.9	1240.5	1307.7	1198.5
80°	1834.1	1293.7	868.1	789.7	772.9	820.5	1083.7	1204.1	1069.7	985.7	924.1
82.5°	722.5	672.0	697.3	613.2	557.2	588.0	842.9	994.1	786.9	711.3	708.5
85°	414.4	436.8	492.8	406.0	322.0	361.2	618.8	714.1	593.6	523.6	534.8
87.5°	112.0	154.0	226.8	210.0	145.6	154.0	294.0	394.8	341.6	263.2	271.6
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)