

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: P950222

Luminaire Tested: **GALN-SB4D-727-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P950222  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB4D-727-U-T2U  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

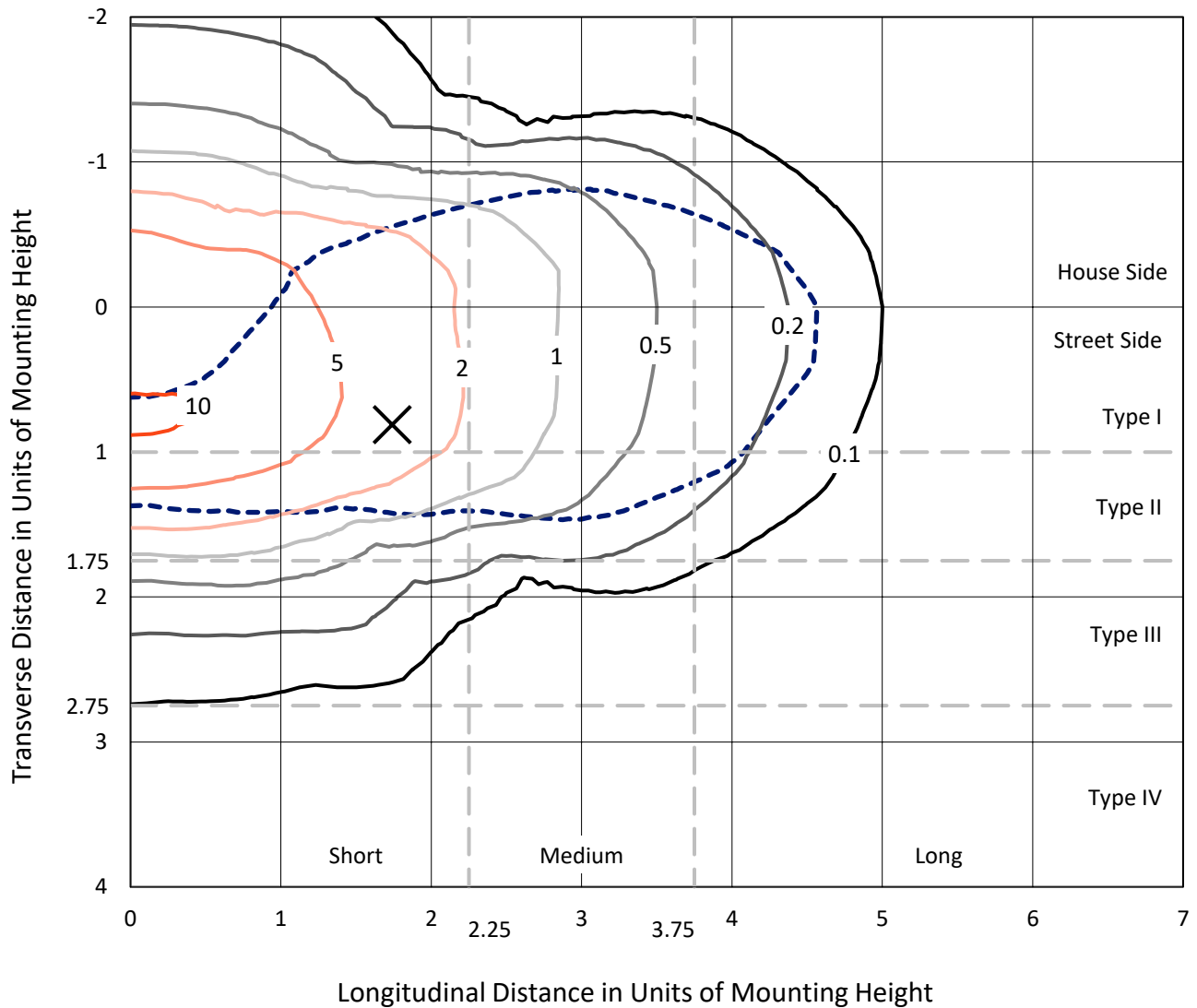
Lumens per Lamp: N/A  
Luminaire Lumens: 38335 lumens  
Efficiency: N/A  
Efficacy: 130.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 293.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

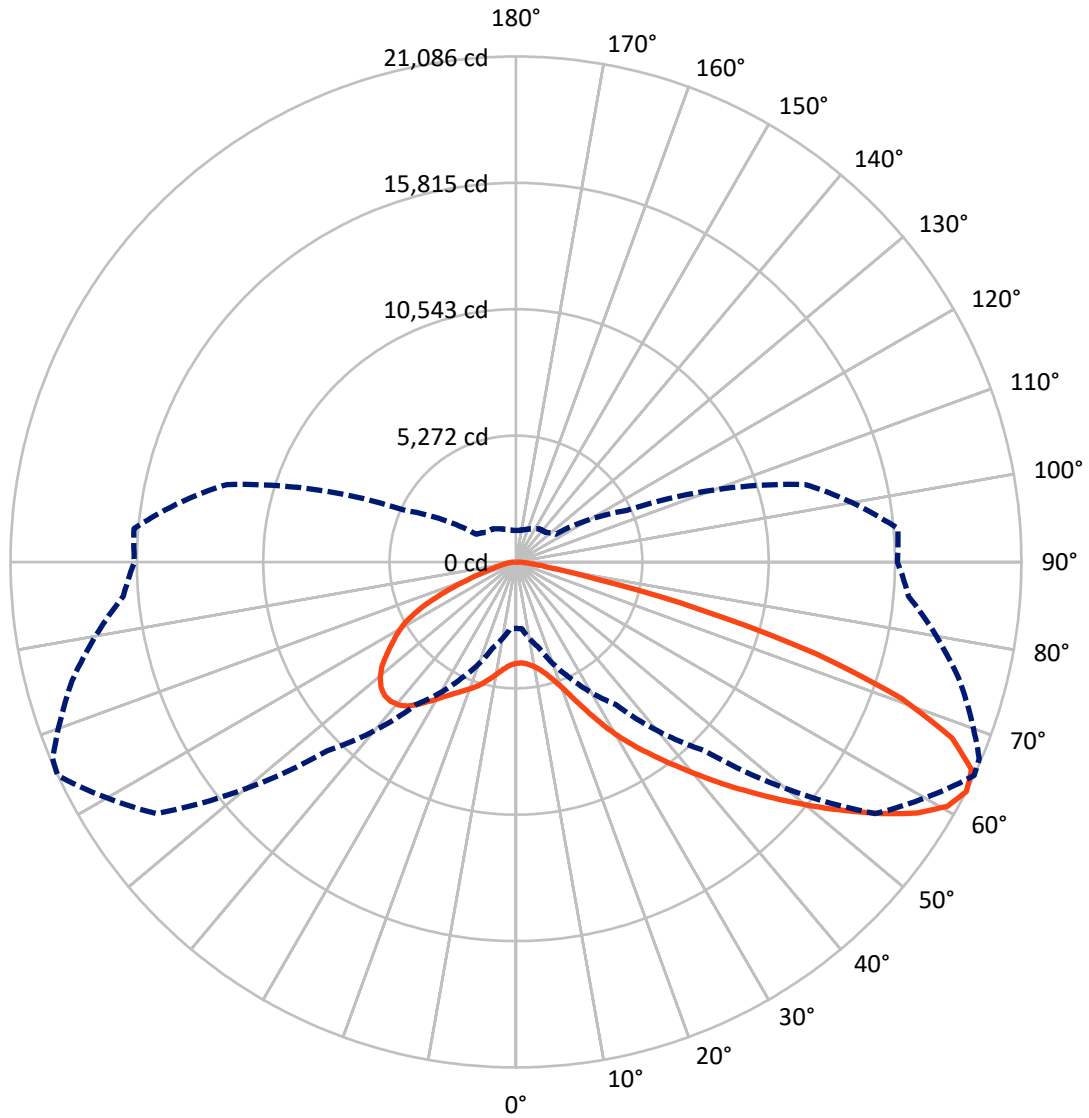
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 fc  
 Type II - Short - N/A

REPORT NUMBER: P950222  
CATALOG NUMBER: GALN-SB4D-727-U-T2U

### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 62.5-Deg Vertical

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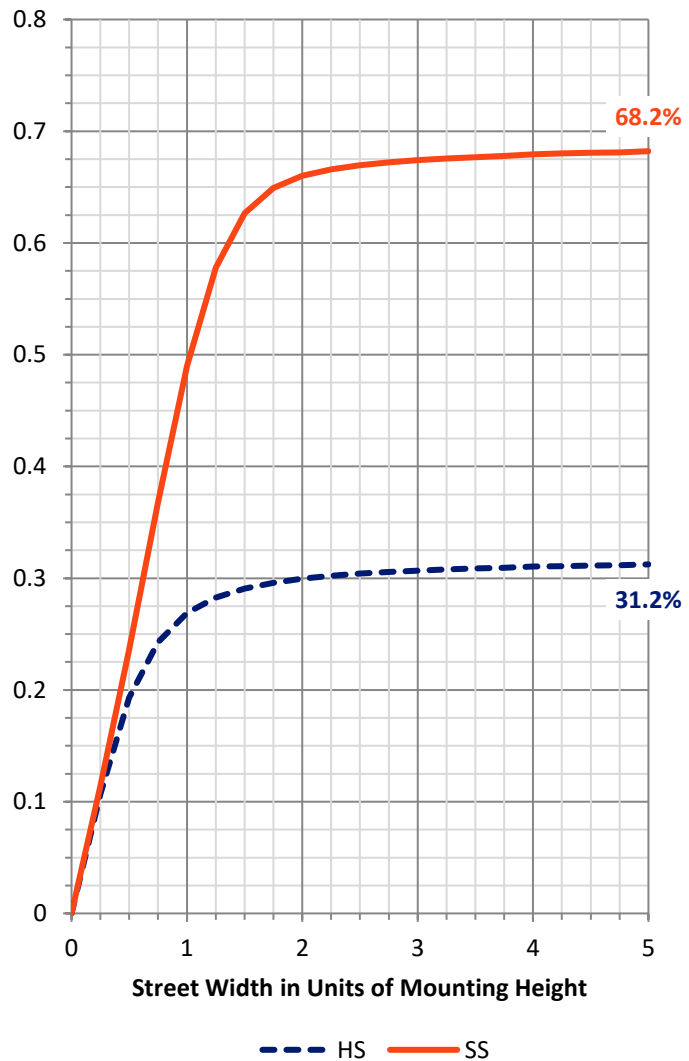
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12096.9	0.0	12096.9
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	26238.1	0.0	26238.1
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	38335.0	0.0	38335.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	421.2	1.1
10°-20°	1428.2	3.7
20°-30°	2895.8	7.6
30°-40°	5011.2	13.1
40°-50°	7583.5	19.8
50°-60°	8891.1	23.2
60°-70°	7454.2	19.4
70°-80°	4115.3	10.7
80°-90°	534.6	1.4
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°	38335.0	100.0
0°-180°	38335.0	100.0



REPORT NUMBER: P950222

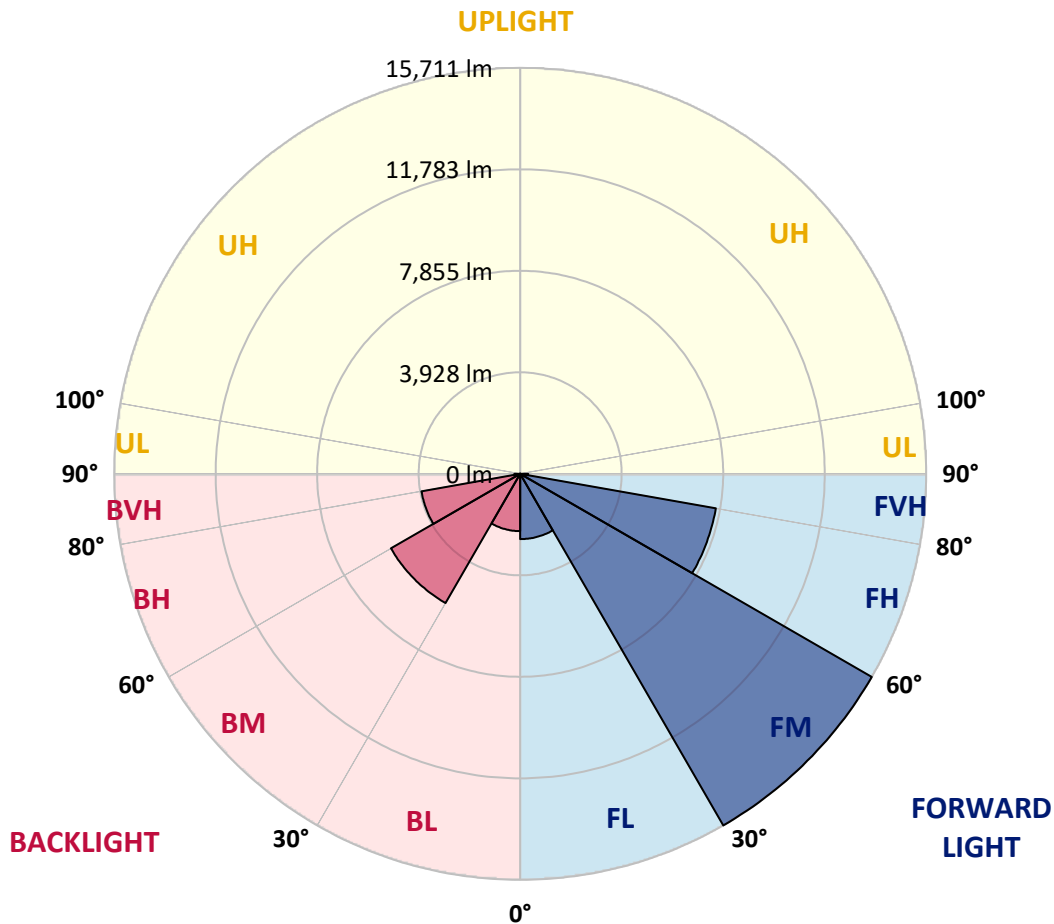
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2526.8	6.6			
FM (30°-60°)	15710.9	41.0			
FH (60°-80°)	7688.9	20.1			G4/12000
FVH (80°-90°)	311.6	0.8			G3/500
BL (0°-30°)	2218.4	5.8	B3/2500		
BM (30°-60°)	5774.9	15.1	B4/8500		
BH (60°-80°)	3880.6	10.1	B4/5000		G4/5000
BVH (80°-90°)	223.0	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	4224.4	4224.4	4224.4	4224.4	4224.4	4224.4	4224.4	4224.4	4224.4	4224.4	4224.4
2.5°	4196.5	4184.6	4194.5	4194.5	4198.5	4196.5	4210.4	4214.4	4220.4	4232.3	4232.3
5°	4154.7	4152.8	4170.7	4186.6	4202.5	4216.4	4234.3	4260.2	4264.1	4278.1	4295.9
7.5°	4140.8	4128.9	4156.7	4176.6	4214.4	4248.2	4295.9	4339.7	4357.6	4363.6	4397.4
10°	4248.2	4228.3	4254.2	4266.1	4297.9	4331.7	4387.4	4457.0	4476.9	4500.8	4538.6
12.5°	4431.2	4409.3	4447.1	4465.0	4494.8	4524.7	4562.5	4630.1	4640.0	4683.8	4719.6
15°	4681.8	4655.9	4679.8	4701.7	4751.4	4779.2	4817.0	4882.7	4882.7	4916.5	4942.3
17.5°	5021.9	4988.1	5006.0	5013.9	5045.8	5087.5	5151.2	5208.8	5238.7	5226.7	5190.9
20°	5529.0	5487.3	5487.3	5447.5	5435.6	5469.4	5552.9	5632.5	5664.3	5602.6	5515.1
22.5°	6290.8	6231.1	6197.3	6062.1	6008.4	6012.3	6095.9	6193.3	6219.2	6109.8	5912.9
25°	7259.4	7165.9	7120.1	6921.3	6799.9	6694.5	6760.2	6885.5	6921.3	6786.0	6467.8
27.5°	8227.9	8233.9	8190.1	7951.5	7750.6	7557.7	7523.9	7655.1	7692.9	7539.8	7146.0
30°	9586.3	9445.1	9361.6	9075.2	8788.8	8518.3	8379.1	8432.8	8442.7	8259.8	7802.3
32.5°	10757.8	10722.0	10543.0	10292.4	9924.4	9500.8	9268.1	9182.6	9166.7	8906.1	8363.2
35°	12092.3	12072.4	11883.5	11585.1	11187.4	10598.7	10179.0	9934.4	9914.5	9548.5	8918.1
37.5°	13448.7	13448.7	13263.7	12937.6	12525.9	11790.0	11151.6	10763.7	10700.1	10222.8	9482.9
40°	14530.7	14465.0	14498.8	14361.6	13890.2	13108.6	12231.5	11668.7	11583.2	11010.4	10083.5
42.5°	15145.2	15123.3	15326.2	15479.3	15286.4	14661.9	13420.9	12649.2	12529.9	11877.5	10775.7
45°	15282.4	15258.6	15620.6	16181.4	16451.9	16195.3	14713.6	13681.4	13536.2	12784.4	11517.5
47.5°	14966.2	14918.5	15449.5	16334.6	17201.7	17653.2	16113.8	14801.1	14590.3	13667.5	12279.3
50°	14015.5	13969.8	14773.3	15948.7	17454.3	18643.6	17633.3	15988.5	15666.3	14614.2	13048.9
52.5°	11949.1	11971.0	13229.9	14844.9	17122.1	19260.2	18942.0	17239.5	16851.7	15582.8	13770.9
55°	9307.9	9355.6	10903.0	12681.0	15793.6	19166.7	19835.0	18528.3	18142.4	16493.7	14516.7
57.5°	6664.7	6875.5	8325.4	10085.5	13241.9	17685.0	20029.9	19753.4	19379.5	17488.1	15246.6
60°	4319.8	4357.6	5849.3	7623.3	10083.5	15051.7	19634.1	20682.2	20389.9	18502.4	15857.2
62.5°	2768.5	2794.4	3703.3	5332.1	7257.4	11135.7	18301.5	21086.0	20996.5	19172.7	16443.9
65°	2034.6	2014.7	2488.1	3524.3	4888.6	6867.6	15714.0	20891.0	21068.1	19592.3	16929.2
67.5°	1698.5	1670.6	1903.3	2440.3	3601.8	3900.2	11626.9	19624.1	20272.5	19544.6	17285.2
70°	1547.3	1523.5	1664.7	1811.9	2810.3	2611.4	5861.2	17060.5	18058.9	19001.6	17227.6
72.5°	1310.7	1268.9	1461.8	1609.0	2185.8	2002.8	2422.4	13104.6	14321.8	17261.4	16416.1
75°	1016.3	988.5	1153.5	1416.1	1642.8	1563.2	1531.4	7957.5	9286.0	13349.3	14361.6
77.5°	805.5	767.7	918.9	1103.8	1477.7	1179.4	1115.8	3426.8	4743.4	8522.3	10745.8
80°	606.6	572.8	698.1	873.1	1135.6	889.0	722.0	1398.2	1788.0	4317.8	5403.7
82.5°	431.6	401.8	487.3	640.4	763.7	797.5	443.5	783.6	881.1	1664.7	1207.2
85°	276.5	258.6	326.2	401.8	485.3	513.1	270.5	409.7	449.5	686.2	503.2
87.5°	151.2	123.3	175.0	187.0	224.7	204.9	129.3	149.2	161.1	248.6	212.8
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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 CATALOG NUMBER: GALN-SB4D-727-U-T2U

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4224.4	4224.4	4224.4	4224.4	4224.4	4224.4	4224.4	4224.4	4224.4	4224.4	4224.4
2.5°	4240.3	4246.2	4266.1	4272.1	4286.0	4303.9	4315.8	4327.8	4327.8	4339.7	4339.7
5°	4297.9	4311.9	4353.6	4375.5	4411.3	4447.1	4469.0	4494.8	4510.7	4518.7	4522.7
7.5°	4409.3	4431.2	4490.9	4528.6	4590.3	4640.0	4673.8	4709.6	4717.6	4739.5	4731.5
10°	4560.5	4586.3	4653.9	4725.5	4799.1	4860.8	4892.6	4918.5	4928.4	4932.4	4922.4
12.5°	4733.5	4771.3	4858.8	4946.3	5023.9	5077.6	5085.5	5079.6	5051.7	5027.9	5027.9
15°	4946.3	4980.1	5077.6	5173.0	5248.6	5258.6	5208.8	5177.0	5143.2	5137.2	5137.2
17.5°	5200.9	5218.8	5308.3	5401.8	5407.7	5373.9	5300.3	5270.5	5238.7	5216.8	5218.8
20°	5497.2	5491.3	5554.9	5594.7	5552.9	5449.5	5338.1	5288.4	5256.6	5230.7	5232.7
22.5°	5851.2	5805.5	5797.5	5787.6	5676.2	5459.4	5308.3	5244.6	5194.9	5159.1	5171.1
25°	6366.4	6191.3	6070.0	6002.4	5751.8	5405.7	5212.8	5071.6	4978.1	4916.5	4940.3
27.5°	7010.8	6716.4	6410.1	6245.0	5751.8	5296.3	4982.1	4753.4	4600.2	4536.6	4568.4
30°	7625.3	7317.0	6865.6	6537.4	5737.9	5117.4	4610.2	4292.0	4113.0	4049.3	4087.1
32.5°	8150.4	7814.3	7348.9	6857.6	5704.1	4827.0	4148.8	3796.7	3623.7	3548.1	3585.9
35°	8637.6	8279.6	7834.1	7209.6	5614.6	4401.4	3641.6	3373.1	3180.2	3058.9	3098.7
37.5°	9136.8	8711.2	8293.6	7527.9	5453.5	3904.1	3251.8	3023.1	2796.3	2633.3	2677.0
40°	9679.8	9170.7	8784.8	7716.8	5189.0	3430.8	2949.5	2740.7	2500.0	2327.0	2360.8
42.5°	10314.3	9721.6	9331.8	7814.3	4827.0	3094.7	2752.6	2547.7	2321.0	2179.8	2207.6
45°	10976.5	10328.2	9831.0	7812.3	4423.2	2937.6	2688.9	2486.1	2235.5	2088.3	2112.2
47.5°	11670.7	10962.6	10262.5	7685.0	4073.2	2959.4	2653.1	2352.8	2076.4	1933.2	1953.1
50°	12366.8	11656.7	10680.2	7446.3	3924.0	2911.7	2519.9	2165.9	1839.7	1710.4	1718.4
52.5°	13056.9	12394.6	11040.2	7106.2	3772.9	2734.7	2348.9	1923.2	1742.2	1652.7	1652.7
55°	13751.0	13124.5	11432.0	6611.0	3395.0	2527.8	2062.5	1831.7	1664.7	1583.1	1575.2
57.5°	14447.1	13967.8	11803.9	6115.8	2919.7	2273.3	1905.3	1720.4	1587.1	1517.5	1505.6
60°	15171.1	14932.4	12187.8	5660.3	2450.3	1947.1	1790.0	1630.9	1495.6	1418.1	1412.1
62.5°	15916.9	15994.5	12488.1	5073.6	2018.7	1748.2	1686.6	1523.5	1392.2	1318.6	1316.6
65°	16668.7	17018.7	12685.0	4260.2	1636.8	1559.3	1575.2	1406.1	1272.9	1209.2	1207.2
67.5°	17235.5	17756.6	12629.3	3224.0	1342.5	1380.3	1436.0	1282.8	1157.5	1107.8	1109.8
70°	17299.2	17669.1	12080.4	2207.6	1123.7	1205.3	1280.8	1161.5	1032.2	996.4	998.4
72.5°	16451.9	16475.8	10550.9	1441.9	950.7	1058.1	1117.7	1038.2	912.9	877.1	875.1
75°	14230.3	13625.7	7746.6	950.7	795.5	908.9	964.6	908.9	787.6	795.5	767.7
77.5°	10781.6	9650.0	4703.7	676.2	664.3	763.7	839.3	799.5	696.1	781.6	688.1
80°	5554.9	5220.8	2098.3	505.2	525.1	610.6	690.1	638.4	550.9	525.1	479.3
82.5°	1272.9	1479.7	827.4	362.0	379.9	439.5	527.0	479.3	395.8	334.1	330.2
85°	445.5	487.3	366.0	226.7	222.8	274.5	358.0	320.2	268.5	214.8	226.7
87.5°	141.2	185.0	137.2	91.5	95.5	123.3	165.1	151.2	125.3	81.5	85.5
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)