

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: P942975

Luminaire Tested: **GALN-SB7B-727-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942975
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB7B-727-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36804 lumens
Efficiency: N/A
Efficacy: 143.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

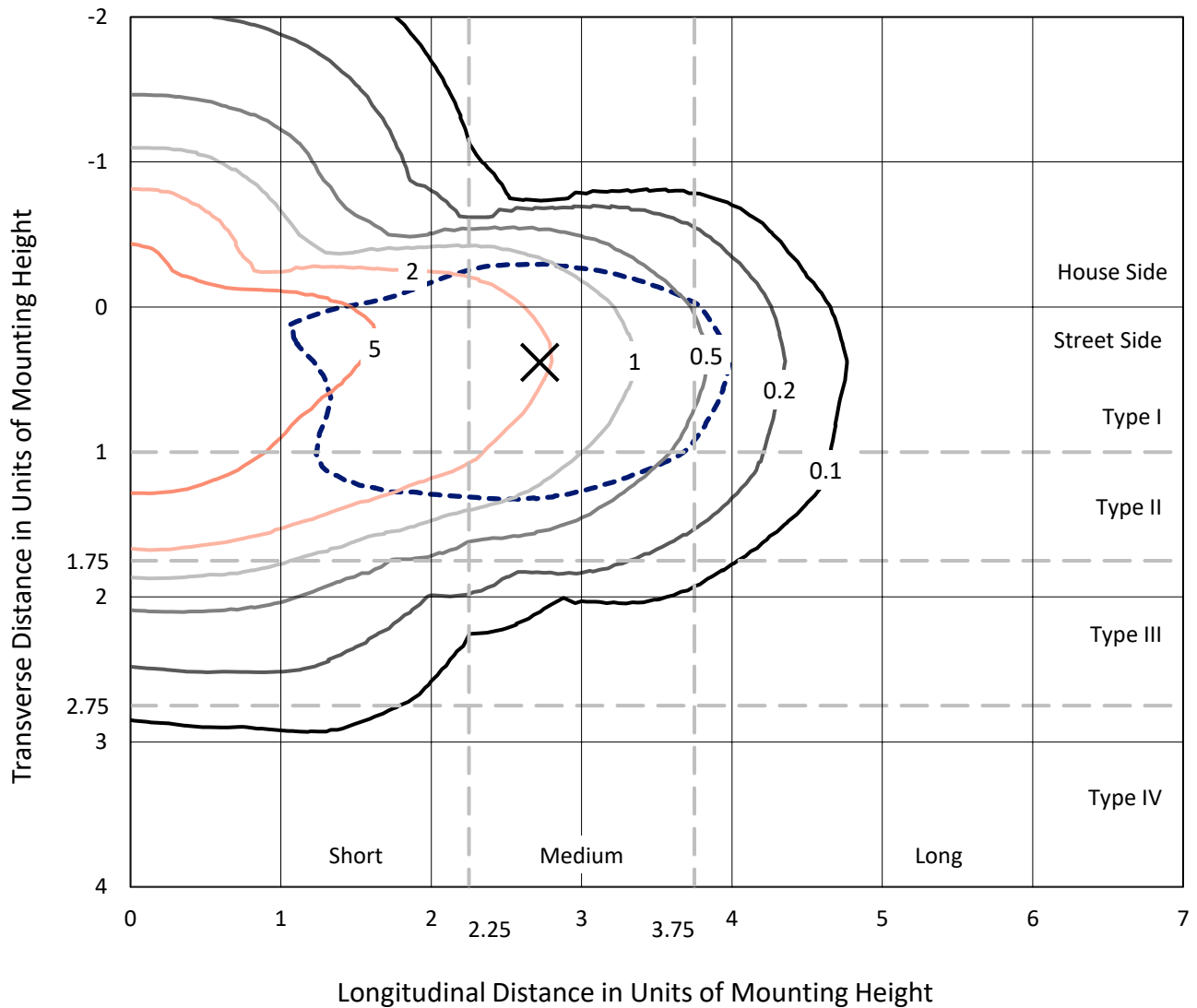
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

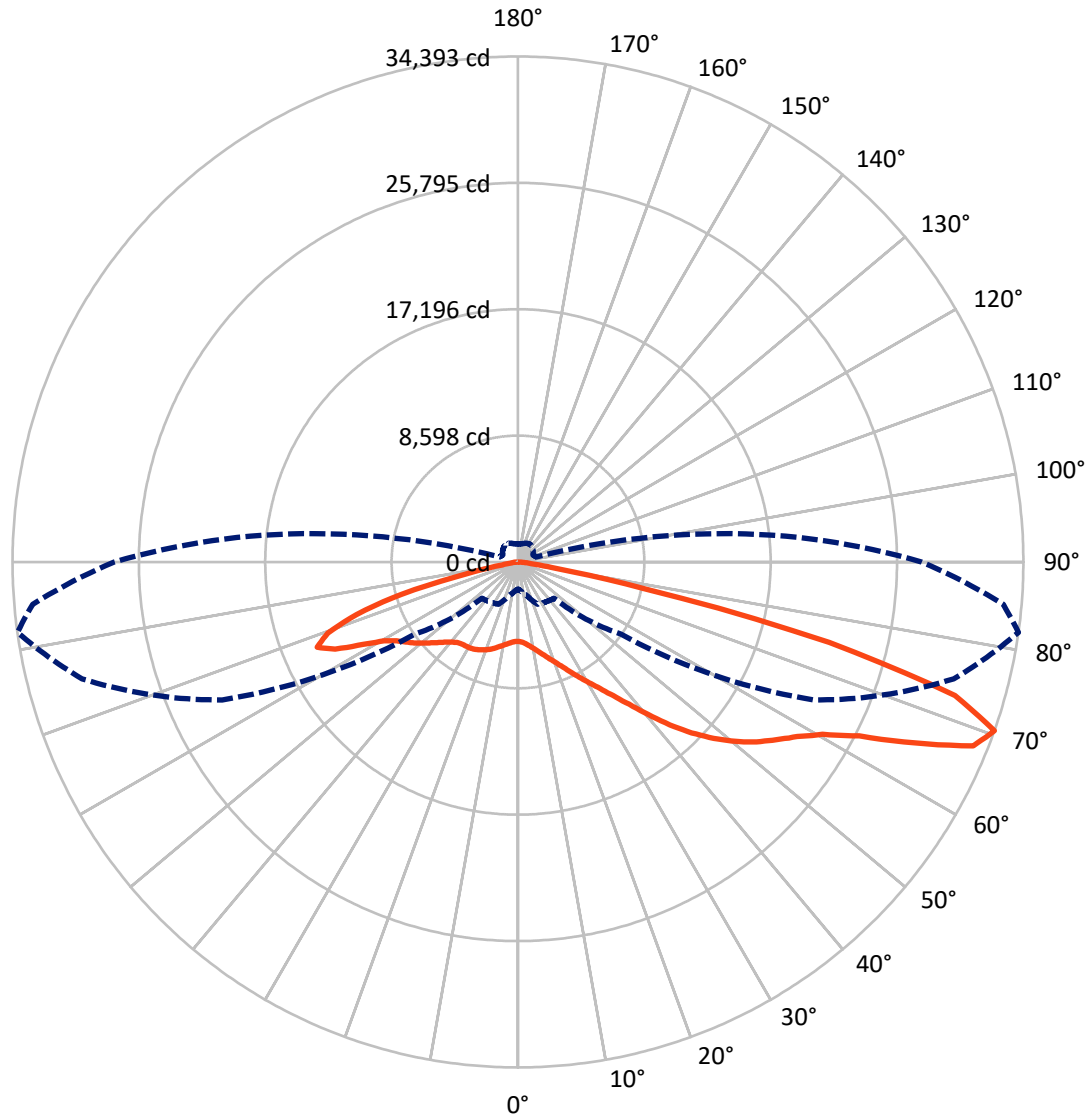
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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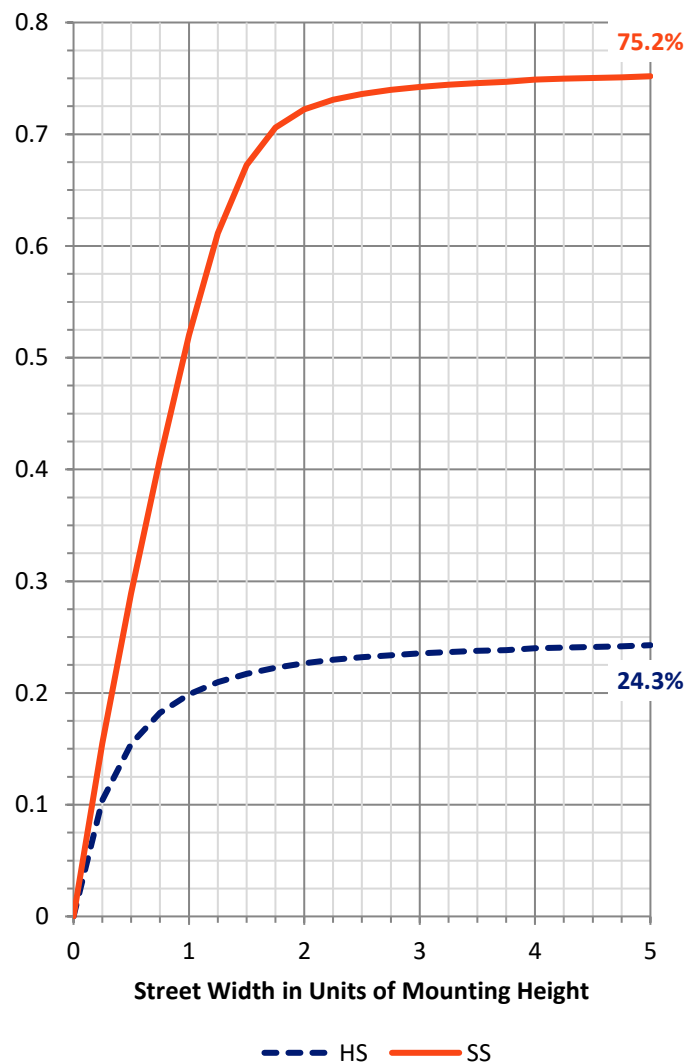
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9073.1	0.0	9073.1
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	27730.9	0.0	27730.9
	% Fixture	75.3	0.0	75.3
Total	Lumens	36804.0	0.0	36804.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	509.5	1.4
10°-20°	1463.7	4.0
20°-30°	2448.7	6.7
30°-40°	3825.5	10.4
40°-50°	6092.5	16.6
50°-60°	8478.5	23.0
60°-70°	8868.9	24.1
70°-80°	4635.4	12.6
80°-90°	481.3	1.3
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°	36804.0	100.0
0°-180°	36804.0	100.0

Coefficient of Utilization



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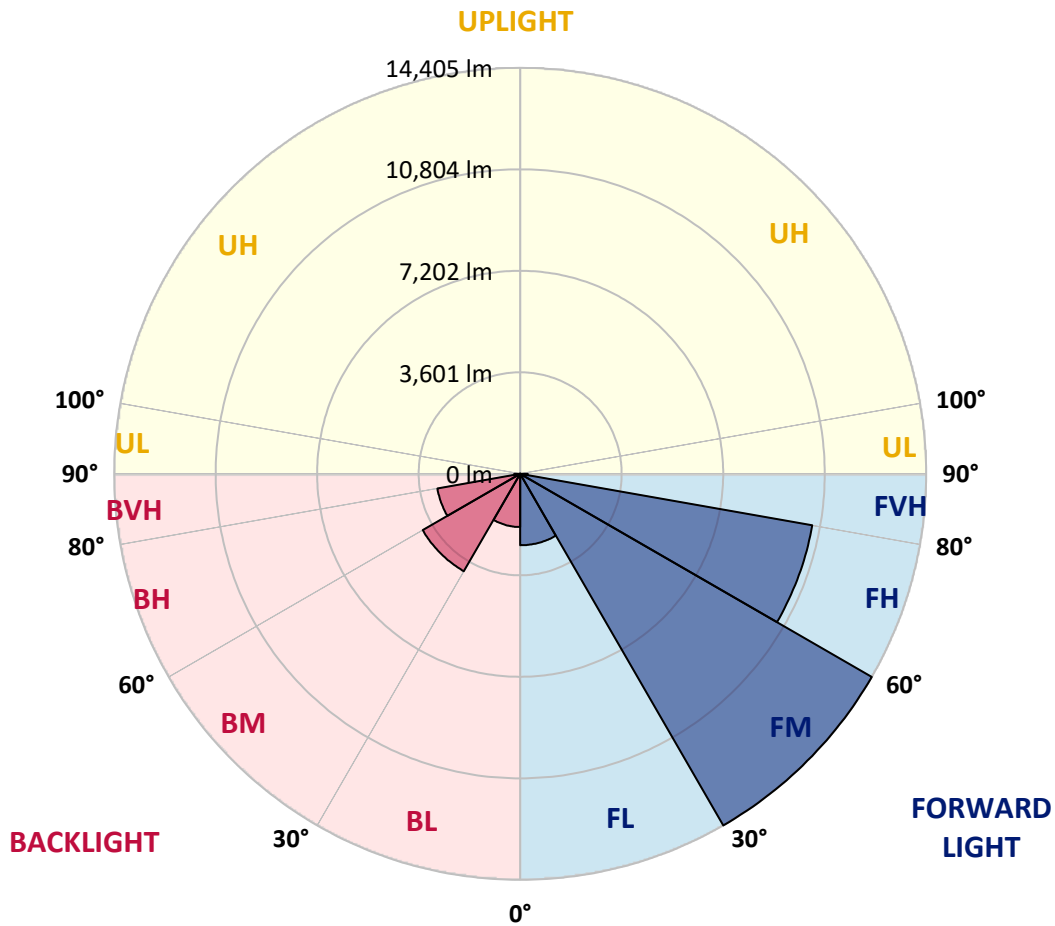
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2534.4	6.9			
FM (30°-60°)	14404.7	39.1			
FH (60°-80°)	10522.4	28.6			G4/12000
FVH (80°-90°)	269.5	0.7			G3/500
BL (0°-30°)	1887.5	5.1	B3/2500		
BM (30°-60°)	3991.8	10.8	B3/5000		
BH (60°-80°)	2981.9	8.1	B4/5000		G4/5000
BVH (80°-90°)	211.9	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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	5395.9	5395.9	5395.9	5395.9	5395.9	5395.9	5395.9	5395.9	5395.9	5395.9	5395.9
2.5°	5524.8	5556.1	5546.3	5536.5	5536.5	5522.9	5520.9	5501.4	5485.8	5460.4	5454.5
5°	5595.1	5628.3	5624.4	5632.2	5657.6	5663.5	5669.3	5657.6	5626.4	5595.1	5581.5
7.5°	5532.6	5569.7	5581.5	5628.3	5706.4	5776.7	5829.5	5851.0	5821.7	5776.7	5755.3
10°	5321.7	5362.7	5403.7	5515.1	5653.7	5819.7	5960.3	6044.3	6038.4	5995.5	5958.4
12.5°	4894.0	4937.0	5024.9	5241.6	5495.5	5788.5	6050.2	6225.9	6286.5	6255.2	6190.8
15°	4552.3	4589.4	4655.8	4878.4	5208.4	5653.7	6083.4	6425.1	6579.4	6561.8	6483.7
17.5°	4542.5	4558.1	4599.1	4704.6	4958.5	5442.8	6048.2	6620.4	6915.3	6913.3	6815.7
20°	4714.4	4720.2	4743.7	4765.1	4909.6	5282.7	5958.4	6782.5	7292.2	7292.2	7186.8
22.5°	4952.6	4948.7	4972.1	4952.6	5022.9	5269.0	5901.7	6925.1	7712.1	7743.3	7610.5
25°	5310.0	5290.5	5284.6	5239.7	5253.4	5395.9	5964.2	7087.2	8210.1	8274.5	8108.5
27.5°	5786.5	5755.3	5733.8	5630.3	5595.1	5657.6	6155.6	7282.5	8764.7	8876.0	8665.1
30°	6407.5	6350.9	6319.7	6140.0	6013.1	6022.8	6444.6	7542.2	9344.7	9524.4	9256.9
32.5°	7255.1	7167.2	7083.3	6788.4	6556.0	6479.8	6817.7	7901.5	9973.6	10260.7	9916.9
35°	8204.2	8133.9	8044.1	7589.1	7231.7	7055.9	7321.5	8403.4	10709.8	11164.9	10717.6
37.5°	9118.2	9057.7	9100.6	8487.4	8026.5	7770.7	7981.6	9077.2	11617.9	12289.7	11721.4
40°	10063.4	10016.5	10022.4	9436.5	8899.5	8612.4	8782.3	9922.8	12658.8	13627.5	12928.4
42.5°	11090.7	11055.5	10938.3	10418.8	9815.4	9547.8	9704.1	10899.3	13775.9	15150.8	14252.4
45°	12240.9	12219.4	12110.1	11514.4	10823.1	10522.3	10733.3	11977.3	14898.9	16584.2	15582.4
47.5°	13235.0	13252.5	13238.9	12737.0	12020.2	11578.9	11830.8	13102.2	15943.7	17931.7	16857.6
50°	13713.4	13805.2	13940.0	13783.7	13338.5	12889.3	12938.1	14188.0	16939.7	19195.3	18080.2
52.5°	13463.5	13637.3	14004.4	14254.4	14426.2	14332.5	14201.7	15266.0	17877.1	20335.8	19236.3
55°	12531.9	12776.0	13385.3	13988.8	14865.7	15547.2	15719.1	16461.2	18791.0	21339.6	20329.9
57.5°	10834.8	11231.3	11778.1	12998.7	14475.1	16135.1	17488.4	18119.2	19759.7	22411.7	21474.3
60°	7925.0	8456.2	9135.8	10952.0	13108.0	15820.6	18994.1	20665.8	21136.5	23800.3	22964.4
62.5°	5071.7	5399.8	6024.8	7735.5	10213.8	14209.5	19455.0	23849.1	23470.2	26077.4	25198.6
65°	3472.3	3683.2	4255.4	5216.3	6602.8	10577.0	18220.8	26235.6	27176.9	29686.4	29018.5
67.5°	2523.2	2683.3	3171.5	4013.3	4302.3	6259.1	14139.2	26126.2	30780.0	33404.8	32365.8
70°	1839.7	1952.9	2363.0	3171.5	3310.2	3482.1	8565.5	22208.6	30701.9	34392.9	33148.9
72.5°	1363.1	1441.3	1716.6	2460.7	2679.4	2351.3	4239.8	16140.9	26382.0	31108.1	30110.2
75°	986.2	1044.8	1247.9	1882.6	2144.3	1790.8	2115.0	9432.6	18402.4	21882.5	22058.3
77.5°	753.8	798.7	931.5	1378.8	1716.6	1343.6	1312.4	4339.4	8725.7	8768.6	9260.8
80°	605.4	634.7	707.0	970.6	1316.3	1005.8	855.4	1751.8	2757.5	2333.7	2449.0
82.5°	445.3	494.1	597.6	681.6	941.3	693.3	521.4	884.7	1048.7	902.3	910.1
85°	253.9	287.1	361.3	488.2	601.5	423.8	298.8	392.5	488.2	400.3	357.4
87.5°	89.8	117.2	126.9	191.4	261.7	175.8	115.2	113.3	160.1	119.1	99.6
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°	5395.9	5395.9	5395.9	5395.9	5395.9	5395.9	5395.9	5395.9	5395.9	5395.9	5395.9
2.5°	5435.0	5425.2	5386.2	5333.4	5278.8	5226.0	5208.4	5171.3	5146.0	5132.3	5147.9
5°	5544.3	5513.1	5421.3	5304.1	5181.1	5048.3	4954.6	4868.6	4806.1	4747.6	4771.0
7.5°	5700.6	5645.9	5487.7	5282.7	5063.9	4843.2	4679.2	4554.2	4470.2	4415.6	4427.3
10°	5882.2	5798.2	5556.1	5249.5	4911.6	4595.2	4401.9	4294.5	4241.7	4212.5	4220.3
12.5°	6091.2	5972.0	5626.4	5173.3	4679.2	4317.9	4185.1	4153.9	4155.8	4157.8	4161.7
15°	6349.0	6183.0	5683.0	5007.3	4376.5	4105.0	4081.6	4132.4	4185.1	4210.5	4208.5
17.5°	6639.9	6405.6	5692.8	4733.9	4079.7	3968.3	4042.6	4151.9	4232.0	4267.1	4274.9
20°	6952.4	6632.1	5622.5	4347.2	3835.5	3857.0	3989.8	4130.4	4218.3	4263.2	4274.9
22.5°	7309.8	6874.3	5454.5	3941.0	3636.3	3735.9	3892.2	4028.9	4120.7	4165.6	4177.3
25°	7718.0	7145.7	5190.9	3599.2	3464.5	3599.2	3755.5	3868.7	3943.0	3984.0	3995.7
27.5°	8171.0	7428.9	4839.3	3327.8	3314.1	3458.6	3587.5	3675.4	3714.5	3745.7	3757.4
30°	8626.1	7686.7	4413.6	3122.7	3183.3	3320.0	3411.8	3450.8	3462.5	3468.4	3482.1
32.5°	9118.2	7909.3	3966.4	2952.8	3058.3	3185.2	3239.9	3257.5	3202.8	3165.7	3177.4
35°	9713.8	8147.6	3528.9	2818.1	2935.2	3044.6	3062.2	3046.6	2982.1	2905.9	2909.9
37.5°	10450.1	8444.4	3179.4	2722.4	2820.0	2892.3	2870.8	2866.9	2872.7	2782.9	2788.8
40°	11352.3	8831.1	2923.5	2648.2	2726.3	2741.9	2681.4	2714.6	2743.9	2607.2	2611.1
42.5°	12354.2	9297.9	2761.4	2597.4	2648.2	2611.1	2517.3	2554.4	2550.5	2370.8	2368.9
45°	13375.6	9805.6	2704.8	2560.3	2575.9	2501.7	2398.2	2408.0	2325.9	2163.8	2169.7
47.5°	14391.1	10350.5	2740.0	2529.0	2486.1	2402.1	2322.0	2279.1	2158.0	2036.9	2036.9
50°	15387.1	10922.7	2868.8	2466.5	2363.0	2314.2	2255.6	2179.5	2050.6	1947.1	1939.3
52.5°	16310.8	11498.8	3013.4	2363.0	2208.8	2238.0	2200.9	2113.1	1986.1	1880.7	1882.6
55°	17185.7	12074.9	3070.0	2220.5	2064.2	2171.7	2150.2	1988.1	1835.7	1749.8	1742.0
57.5°	18138.8	12768.2	3007.5	2038.9	1947.1	2095.5	2013.5	1833.8	1745.9	1681.5	1675.6
60°	19458.9	13856.0	2872.7	1814.3	1835.7	1982.2	1841.6	1767.4	1671.7	1599.4	1595.5
62.5°	21652.1	15885.1	2656.0	1591.6	1704.9	1814.3	1759.6	1685.4	1587.7	1517.4	1517.4
65°	24893.9	18705.1	2247.8	1417.8	1558.4	1650.2	1671.7	1597.5	1495.9	1421.7	1425.6
67.5°	27628.0	20474.4	1701.0	1273.3	1408.1	1517.4	1578.0	1505.7	1398.3	1326.0	1328.0
70°	27477.6	19189.4	1298.7	1130.7	1275.3	1386.6	1464.7	1408.1	1292.8	1224.5	1230.3
72.5°	24405.7	16053.0	1050.7	986.2	1140.5	1249.9	1343.6	1300.6	1183.5	1117.1	1117.1
75°	17929.8	11395.3	839.8	839.8	972.6	1107.3	1210.8	1183.5	1076.1	1029.2	1015.5
77.5°	7557.8	4780.8	658.1	697.2	808.5	951.1	1080.0	1089.7	996.0	1054.6	956.9
80°	2009.6	1318.2	501.9	548.8	634.7	785.1	939.4	935.5	833.9	779.2	724.5
82.5°	765.5	519.5	357.4	386.7	458.9	601.5	744.1	767.5	665.9	576.1	576.1
85°	294.9	222.6	220.7	232.4	267.6	398.4	562.4	582.0	501.9	425.7	439.4
87.5°	76.2	66.4	82.0	78.1	123.0	212.9	322.2	333.9	306.6	177.7	253.9
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)