

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: P944176

Luminaire Tested: **GALN-SB9A-730-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944176
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9A-730-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32044 lumens
Efficiency: N/A
Efficacy: 125.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 255.5
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



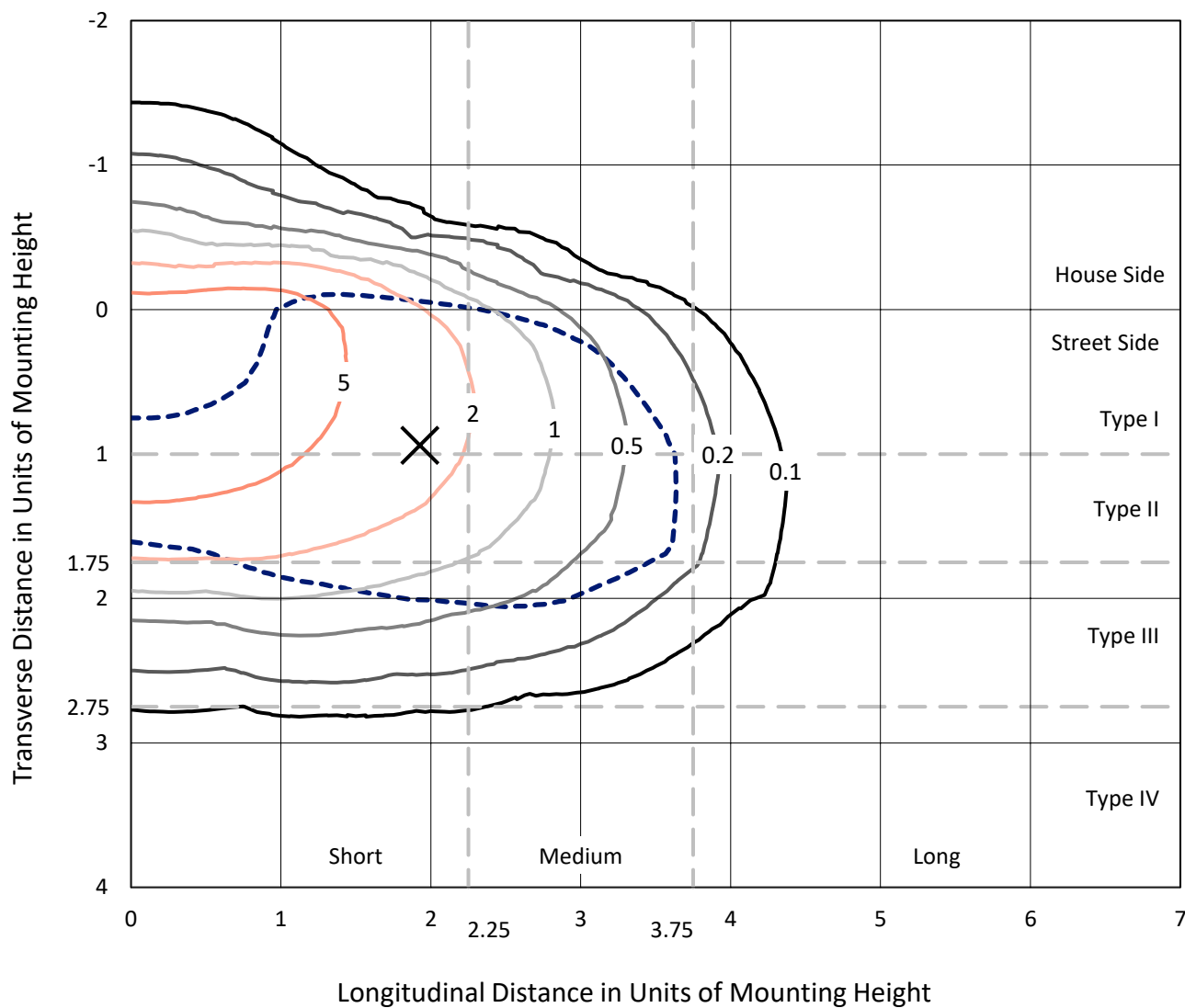
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

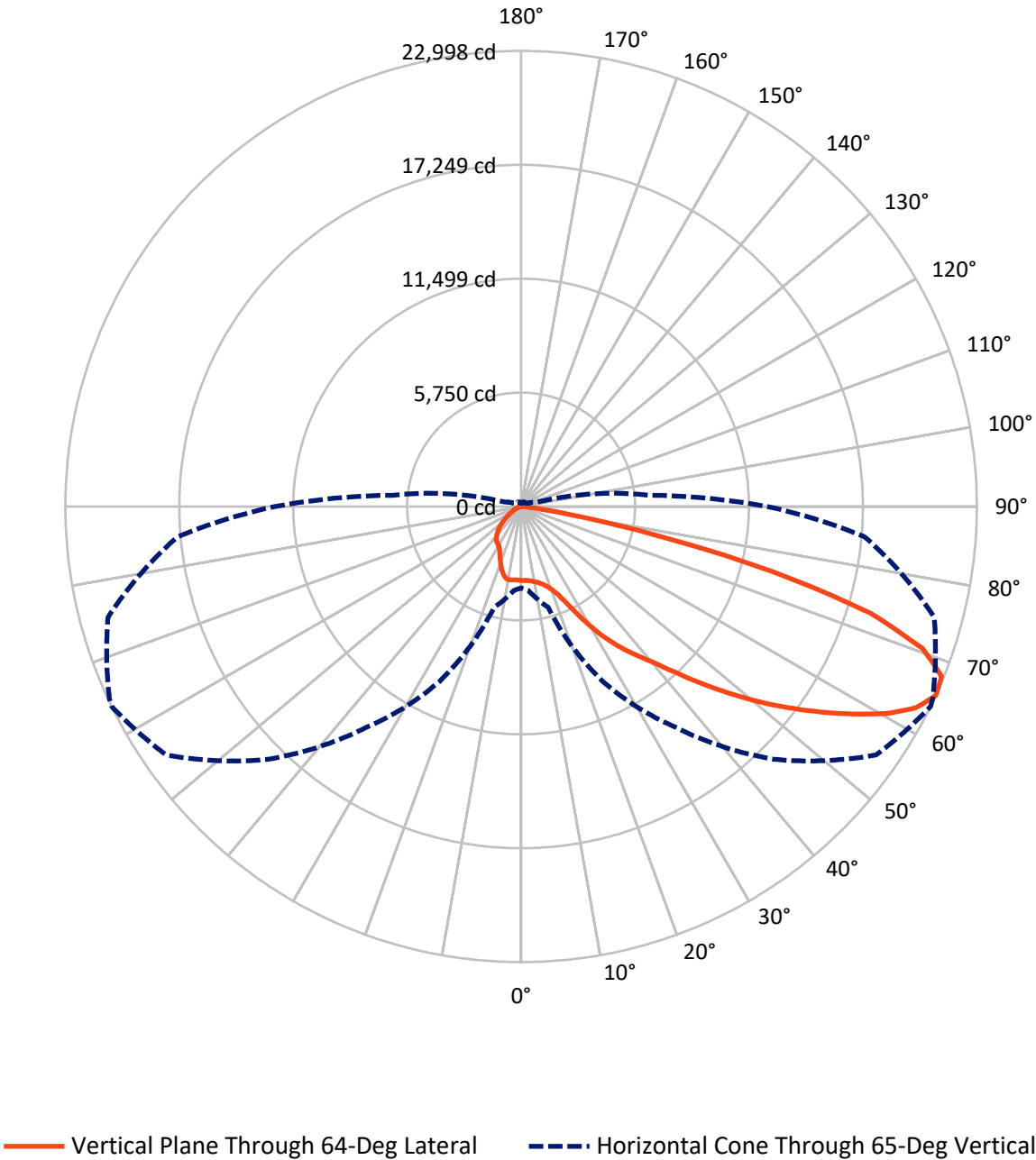
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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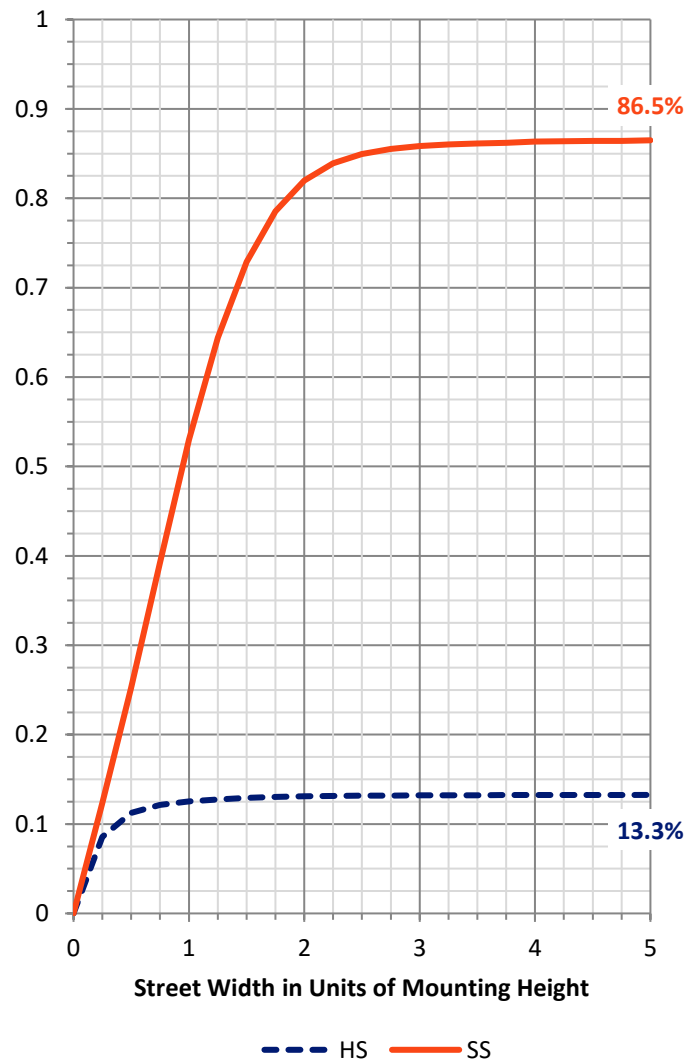
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4285.3	0.0	4285.3
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	27758.7	0.0	27758.7
	% Fixture	86.6	0.0	86.6
Total	Lumens	32044.0	0.0	32044.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	343.9	1.1
10°-20°	932.6	2.9
20°-30°	1767.3	5.5
30°-40°	3576.1	11.2
40°-50°	6092.0	19.0
50°-60°	8284.6	25.9
60°-70°	7779.7	24.3
70°-80°	3116.9	9.7
80°-90°	151.0	0.5
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°	32044.0	100.0
0°-180°	32044.0	100.0

Coefficient of Utilization



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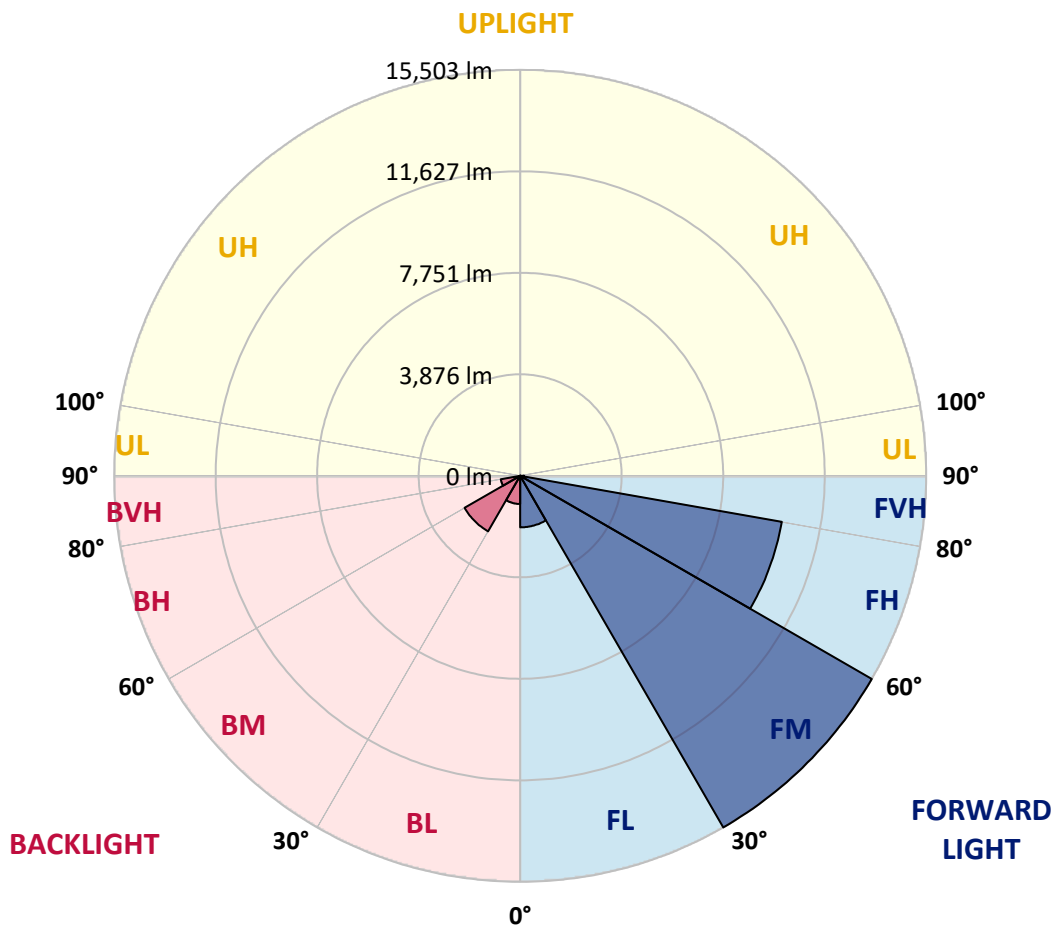
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1967.9	6.1			
FM	(30°-60°)	15502.8	48.4			
FH	(60°-80°)	10144.4	31.7			G4/12000
FVH	(80°-90°)	143.6	0.4			G2/225
BL	(0°-30°)	1075.9	3.4	B3/2500		
BM	(30°-60°)	2449.8	7.6	B2/2500		
BH	(60°-80°)	752.1	2.3	B2/1000		G2/1000
BVH	(80°-90°)	7.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	3727.0	3727.0	3727.0	3727.0	3727.0	3727.0	3727.0	3727.0	3727.0	3727.0	3727.0
2.5°	3714.2	3739.9	3733.5	3727.0	3724.9	3729.2	3731.3	3729.2	3729.2	3729.2	3731.3
5°	3643.3	3664.8	3664.8	3679.8	3701.3	3727.0	3746.4	3750.7	3755.0	3761.4	3759.3
7.5°	3507.9	3525.1	3538.0	3587.4	3641.1	3709.9	3767.9	3797.9	3802.2	3825.9	3834.5
10°	3415.6	3437.0	3458.5	3510.1	3587.4	3690.5	3789.3	3862.4	3873.1	3929.0	3954.8
12.5°	3411.3	3432.8	3460.7	3516.5	3606.8	3716.3	3836.6	3941.9	3961.2	4042.8	4096.5
15°	3456.4	3482.2	3507.9	3576.7	3673.3	3806.5	3935.4	4066.5	4085.8	4201.8	4259.8
17.5°	3548.8	3583.1	3602.5	3671.2	3774.3	3922.5	4092.2	4242.6	4259.8	4395.1	4468.2
20°	3731.3	3772.2	3778.6	3834.5	3935.4	4094.4	4296.3	4483.2	4504.7	4659.3	4741.0
22.5°	4109.4	4167.4	4115.9	4143.8	4234.0	4393.0	4612.1	4848.4	4878.5	5054.6	5127.6
25°	4775.3	4857.0	4723.8	4676.5	4715.2	4880.6	5155.6	5454.2	5488.5	5630.3	5666.8
27.5°	6083.6	5978.3	5776.4	5578.8	5462.8	5557.3	5866.6	6236.1	6279.1	6416.5	6373.6
30°	7520.7	7428.3	7155.5	6717.3	6442.3	6427.3	6713.0	7125.4	7174.8	7305.9	7174.8
32.5°	8960.0	8871.9	8575.4	8036.3	7559.4	7323.1	7520.7	7978.2	8004.0	8087.8	7894.5
35°	10375.6	10285.4	9988.9	9436.8	8850.4	8313.4	8274.7	8790.3	8798.8	8886.9	8599.1
37.5°	11799.8	11724.6	11408.9	10867.5	10289.7	9548.6	9189.8	9559.3	9570.0	9656.0	9357.4
40°	12815.9	12848.1	12631.2	12212.3	11716.0	10906.2	10216.6	10377.7	10313.3	10457.2	10278.9
42.5°	13688.0	13752.5	13563.5	13352.9	13065.1	12351.9	11488.3	11460.4	11357.3	11434.6	11249.9
45°	14442.1	14495.8	14326.0	14276.6	14270.2	13769.7	12878.2	12710.6	12566.7	12551.7	12330.4
47.5°	14719.2	14822.3	14895.3	15060.7	15382.9	15172.4	14315.3	14055.4	13894.3	13776.1	13426.0
50°	14824.4	14934.0	15183.2	15664.4	16426.9	16517.2	15746.0	15453.8	15256.2	15041.4	14525.8
52.5°	14682.6	14878.1	15213.2	16023.1	17129.4	17595.5	17118.7	16863.0	16637.5	16287.3	15522.6
55°	13847.0	14042.5	14727.8	16018.8	17479.5	18351.7	18416.1	18302.3	18048.8	17496.7	16328.1
57.5°	12085.5	12375.5	13460.3	15473.2	17473.1	19002.6	19687.8	19769.5	19485.9	18695.4	16961.8
60°	9645.2	10038.3	11361.6	14263.8	16933.9	19354.9	20802.7	21210.9	20910.1	19876.9	17475.2
62.5°	6730.2	7185.6	8438.0	12369.1	15700.9	19101.4	21616.9	22370.9	22143.2	20933.8	17672.9
65°	4105.1	4251.2	5260.8	9733.3	13604.3	18040.2	21868.2	22998.2	22923.0	21580.4	17380.7
67.5°	2734.6	2857.0	3147.0	6674.3	10560.3	15920.0	21266.7	22888.6	22910.1	21475.1	16310.9
70°	1647.6	1752.9	1941.9	3881.7	6844.0	12601.1	19404.3	21492.3	21616.9	20068.1	14283.1
72.5°	678.8	749.7	921.6	1759.3	3544.5	7997.6	15451.7	18452.7	18742.7	16873.8	10962.0
75°	384.5	421.0	541.3	882.9	1538.1	3727.0	9359.5	13099.5	13526.9	11630.1	6594.8
77.5°	255.6	272.8	350.1	571.4	865.7	1271.7	3999.9	6824.7	7641.0	6352.1	2854.9
80°	171.9	186.9	240.6	382.4	562.8	545.6	1273.9	2528.4	3110.5	2182.5	696.0
82.5°	116.0	118.1	171.9	251.3	356.6	264.2	375.9	786.2	988.2	631.6	264.2
85°	66.6	64.4	126.7	146.1	159.0	109.6	113.9	236.3	309.3	266.4	150.4
87.5°	8.6	12.9	49.4	38.7	21.5	23.6	23.6	40.8	60.1	64.4	32.2
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°	3727.0	3727.0	3727.0	3727.0	3727.0	3727.0	3727.0	3727.0	3727.0	3727.0	3727.0
2.5°	3731.3	3729.2	3722.8	3716.3	3701.3	3692.7	3697.0	3692.7	3690.5	3692.7	3701.3
5°	3759.3	3752.8	3735.6	3714.2	3684.1	3647.6	3623.9	3589.6	3557.3	3538.0	3542.3
7.5°	3834.5	3828.0	3804.4	3744.2	3647.6	3495.0	3355.4	3233.0	3140.6	3086.9	3089.0
10°	3954.8	3944.0	3907.5	3774.3	3520.8	3187.9	2910.8	2680.9	2530.5	2459.6	2453.2
12.5°	4096.5	4083.6	4019.2	3746.4	3280.2	2760.4	2378.0	2122.4	1982.7	1920.5	1914.0
15°	4264.1	4246.9	4120.2	3613.2	2930.1	2287.8	1937.6	1746.5	1656.2	1600.4	1602.5
17.5°	4472.5	4442.4	4195.3	3413.4	2549.9	1926.9	1667.0	1523.0	1443.6	1389.9	1385.6
20°	4743.1	4693.7	4255.5	3175.0	2199.7	1699.2	1484.4	1364.1	1303.9	1256.7	1248.1
22.5°	5121.2	5050.3	4328.5	2917.2	1952.7	1542.4	1349.0	1261.0	1211.6	1157.9	1149.3
25°	5589.5	5505.7	4418.8	2678.8	1783.0	1407.0	1250.2	1177.2	1119.2	1056.9	1050.4
27.5°	6244.7	6094.3	4526.2	2483.3	1636.9	1291.0	1160.0	1078.4	1011.8	960.2	949.5
30°	6975.1	6728.0	4620.7	2365.1	1503.7	1183.6	1041.9	960.2	897.9	861.4	855.0
32.5°	7666.8	7331.7	4683.0	2313.6	1383.4	1061.2	913.0	824.9	777.6	766.9	773.3
35°	8319.8	7877.3	4676.5	2264.2	1276.0	938.7	786.2	696.0	659.5	665.9	665.9
37.5°	9071.7	8459.4	4631.4	2186.8	1187.9	827.0	676.7	597.2	565.0	567.1	575.7
40°	9946.0	9131.8	4603.5	2040.7	1091.3	723.9	586.4	522.0	498.4	489.8	487.6
42.5°	10878.3	9782.7	4607.8	1875.3	971.0	631.6	524.1	470.4	449.0	442.5	440.4
45°	11814.9	10403.5	4614.2	1703.5	844.2	560.7	479.0	433.9	421.0	412.4	412.4
47.5°	12695.6	10932.0	4493.9	1518.7	719.6	507.0	442.5	412.4	401.7	391.0	391.0
50°	13516.2	11284.3	4203.9	1303.9	620.8	464.0	414.6	393.1	382.4	371.6	371.6
52.5°	14154.2	11340.1	3724.9	1082.7	552.1	431.8	397.4	378.1	365.2	354.4	352.3
55°	14437.8	10990.0	3043.9	876.4	498.4	403.9	380.2	360.9	345.9	335.1	333.0
57.5°	14364.7	10253.1	2373.7	704.6	446.8	375.9	358.7	345.9	328.7	311.5	309.3
60°	14006.0	9267.1	1789.4	586.4	399.6	345.9	335.1	324.4	300.7	275.0	270.7
62.5°	13385.2	8027.7	1276.0	485.5	348.0	311.5	307.2	298.6	264.2	217.0	212.7
65°	12435.7	6521.8	859.3	403.9	298.6	272.8	275.0	259.9	214.8	161.1	156.8
67.5°	11048.0	4768.9	549.9	330.8	249.2	227.7	229.9	221.3	182.6	137.5	131.0
70°	9280.0	3157.8	358.7	251.3	199.8	176.1	189.0	191.2	154.7	111.7	107.4
72.5°	6803.2	1864.6	251.3	186.9	146.1	122.4	154.7	159.0	124.6	83.8	79.5
75°	3877.4	885.0	189.0	135.3	90.2	85.9	120.3	120.3	85.9	55.9	51.6
77.5°	1628.3	369.5	133.2	88.1	51.6	49.4	81.6	75.2	43.0	25.8	25.8
80°	470.4	165.4	70.9	43.0	21.5	19.3	32.2	23.6	10.7	4.3	4.3
82.5°	184.7	73.0	27.9	17.2	8.6	8.6	4.3	0.0	0.0	0.0	0.0
85°	109.6	30.1	12.9	6.4	2.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	27.9	6.4	4.3	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)