

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: P383025

Luminaire Tested: **GLEON-SA3D-735-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383025
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA3D-735-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21617.5 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

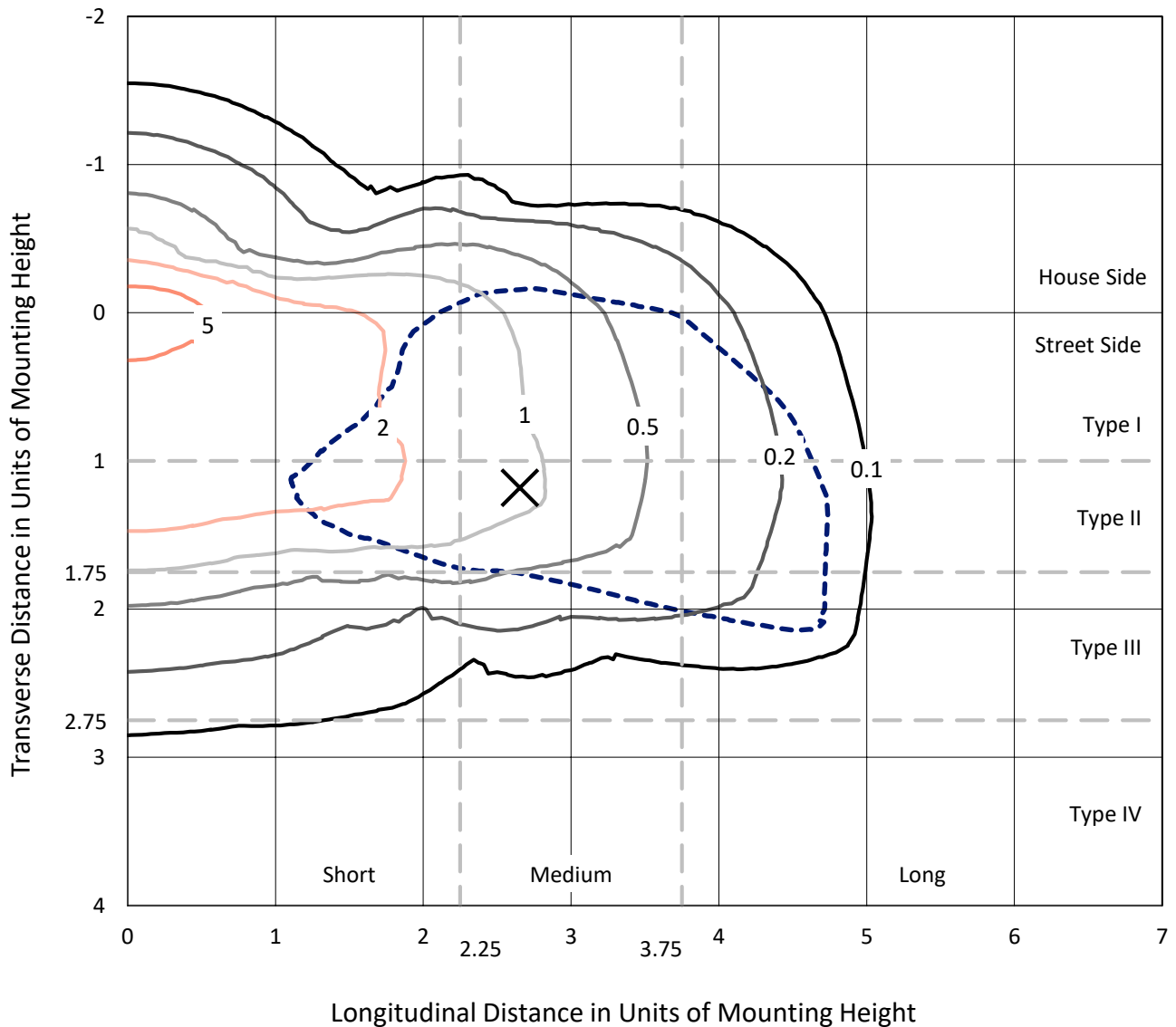
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

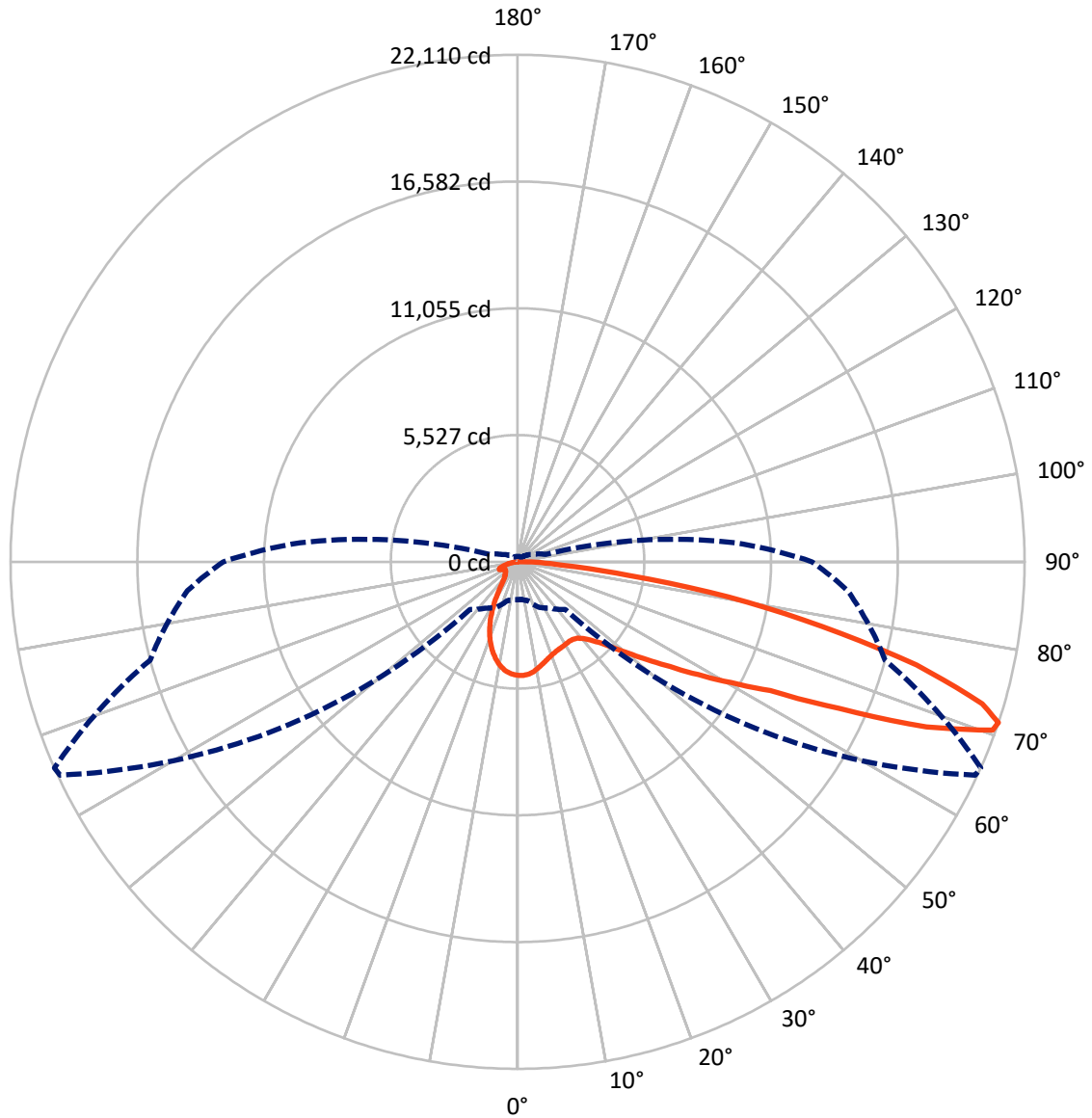
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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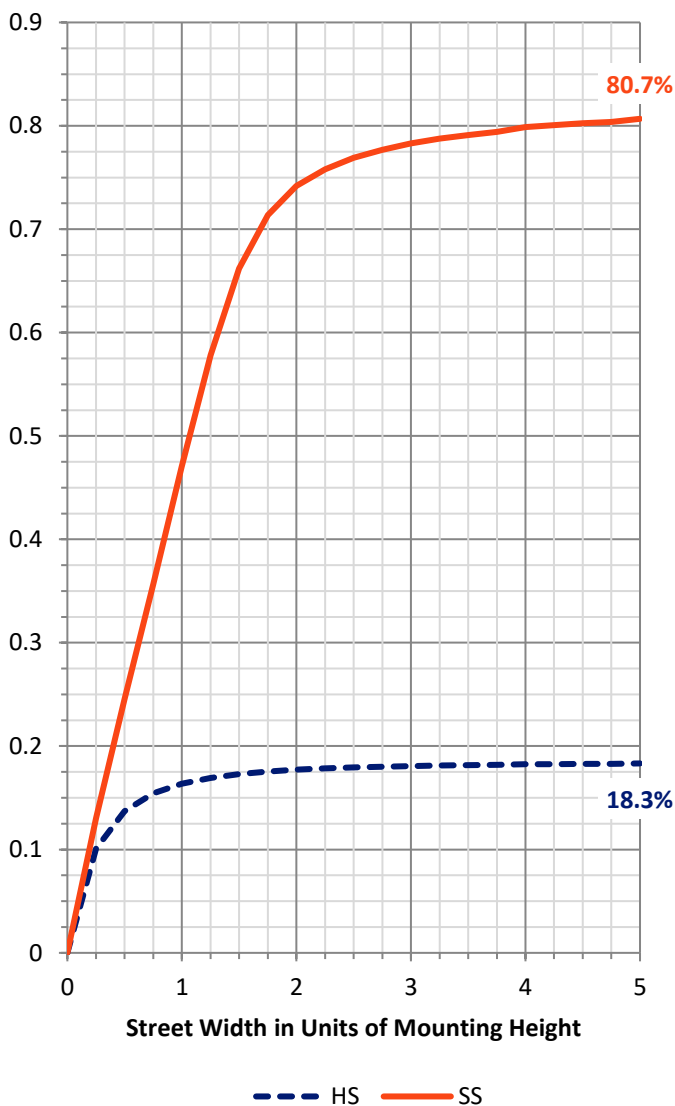
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4006.3	0.0	4006.3
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	17611.2	0.0	17611.2
	% Fixture	81.5	0.0	81.5
Total	Lumens	21617.5	0.0	21617.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	435.9	2.0
10°-20°	1045.5	4.8
20°-30°	1404.4	6.5
30°-40°	1847.4	8.5
40°-50°	2687.5	12.4
50°-60°	4198.2	19.4
60°-70°	5258.9	24.3
70°-80°	4011.4	18.6
80°-90°	728.4	3.4
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°	21617.5	100.0
0°-180°	21617.5	100.0

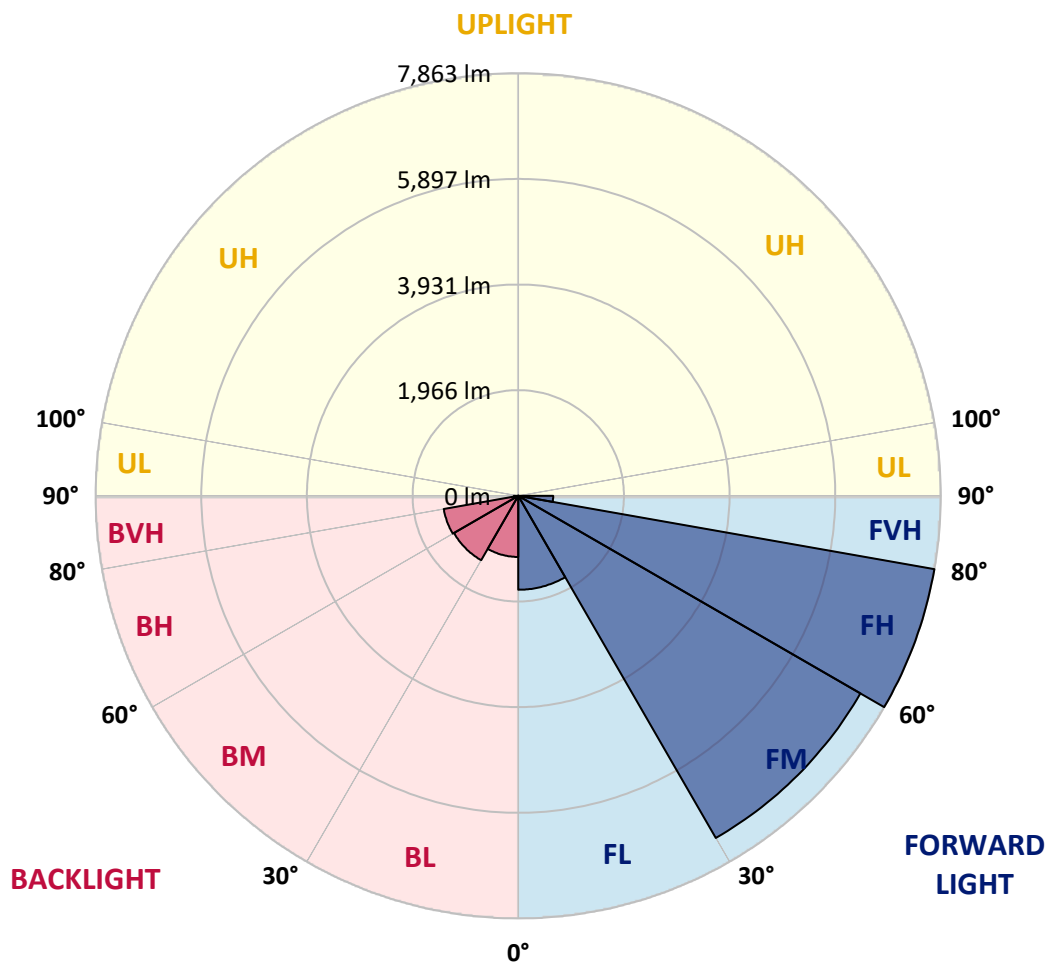


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1748.1	8.1			
FM (30°-60°)	7351.0	34.0			
FH (60°-80°)	7862.5	36.4			G4/12000
FVH (80°-90°)	649.6	3.0			G4/750
BL (0°-30°)	1137.7	5.3	B3/2500		
BM (30°-60°)	1382.0	6.4	B2/2500		
BH (60°-80°)	1407.7	6.5	B3/2500		G3/2500
BVH (80°-90°)	78.9	0.4			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4952.1	4952.1	4952.1	4952.1	4952.1	4952.1	4952.1	4952.1	4952.1	4952.1	4952.1
2.5°	4860.3	4852.9	4875.3	4898.4	4907.4	4922.3	4944.7	4957.4	4956.7	4958.9	4951.4
5°	4537.9	4528.3	4573.0	4609.6	4679.7	4758.8	4855.1	4923.8	4925.3	4964.1	4974.6
7.5°	4232.7	4226.0	4277.4	4336.4	4417.8	4538.7	4694.6	4842.5	4851.4	4956.7	4993.2
10°	3987.9	3986.4	4036.4	4100.6	4195.3	4330.4	4509.5	4726.0	4739.4	4920.8	4996.2
12.5°	3796.8	3799.8	3843.0	3916.2	4016.2	4157.3	4351.4	4595.4	4617.0	4864.1	4979.0
15°	3655.7	3667.7	3702.7	3776.6	3875.1	4018.4	4217.8	4474.5	4507.3	4800.6	4969.3
17.5°	3575.1	3588.5	3613.2	3674.4	3766.9	3905.0	4093.9	4375.2	4405.1	4752.1	4970.1
20°	3551.2	3562.4	3576.6	3613.9	3692.3	3817.7	3996.1	4285.7	4317.7	4713.4	4977.5
22.5°	3598.2	3606.5	3608.0	3605.0	3652.7	3755.0	3925.2	4220.0	4254.3	4687.9	4982.8
25°	3699.0	3710.2	3702.0	3674.4	3658.7	3721.3	3888.6	4176.7	4211.0	4669.3	4972.3
27.5°	3850.6	3852.0	3845.2	3809.5	3735.6	3725.2	3877.4	4151.3	4184.1	4647.7	4950.6
30°	4056.5	4066.2	4054.3	4005.7	3884.8	3784.8	3890.8	4126.7	4156.6	4620.0	4915.6
32.5°	4297.6	4321.4	4320.7	4269.9	4096.9	3918.5	3946.0	4111.8	4134.9	4590.9	4873.0
35°	4547.6	4580.4	4641.6	4620.0	4405.8	4129.6	4052.0	4135.6	4151.3	4587.2	4843.2
37.5°	4807.3	4840.2	4966.4	5024.6	4773.8	4431.9	4219.3	4220.0	4227.5	4632.7	4841.0
40°	5079.1	5114.1	5303.7	5455.2	5250.7	4814.8	4488.7	4396.1	4387.9	4744.7	4884.9
42.5°	5459.7	5491.0	5718.7	5912.0	5779.9	5305.2	4861.1	4667.8	4650.7	4964.1	5026.1
45°	5941.1	5968.0	6209.8	6416.5	6348.6	5864.9	5329.1	5041.7	5038.7	5329.8	5311.9
47.5°	6513.6	6534.4	6751.7	6951.7	6976.3	6509.1	5917.2	5618.6	5570.1	5831.4	5754.4
50°	7109.9	7133.0	7280.8	7495.8	7678.7	7371.1	6674.0	6325.5	6260.6	6493.4	6381.5
52.5°	7504.7	7535.3	7663.7	7936.1	8468.3	8316.0	7568.9	7182.3	7083.8	7295.8	7209.9
55°	7328.6	7397.2	7593.5	8030.1	9099.7	9759.5	8672.8	8181.7	8070.5	8246.6	8195.8
57.5°	6527.7	6621.8	6889.7	7563.7	9188.5	11031.3	10341.7	9358.7	9280.4	9229.6	9252.7
60°	5064.1	5154.4	5486.5	6365.0	8569.8	11959.8	12853.2	10809.7	10696.2	10216.3	10237.1
62.5°	3584.0	3538.5	3766.2	4408.8	6963.6	12068.8	15711.0	12750.2	12377.0	11258.2	11166.4
65°	2733.2	2722.7	2825.0	3029.5	4217.8	10764.9	17413.5	16011.8	15428.9	12483.8	12267.3
67.5°	2245.8	2227.1	2327.9	2625.8	2716.0	6945.0	17450.9	19795.9	19223.4	14009.4	13540.6
70°	1846.5	1825.6	1919.6	2304.0	2510.1	3522.1	14687.1	22011.9	21981.3	15940.9	14502.0
71°	1655.5	1640.5	1753.2	2180.1	2466.0	2935.5	12680.8	22017.9	22109.6	16594.8	14445.2
72.5°	1347.9	1353.2	1472.6	1940.6	2433.2	2592.1	9319.9	20991.6	21185.6	17218.0	13929.4
75°	895.7	900.2	1056.8	1492.7	2359.2	2536.1	5122.3	17614.3	17971.0	16844.8	12710.6
77.5°	601.6	600.1	706.8	1024.1	2055.5	2536.1	3003.4	13174.1	13565.9	13403.3	9799.0
80°	414.3	411.3	486.6	706.8	1556.2	2566.8	2322.0	9232.6	9351.2	7238.3	3982.6
82.5°	253.8	256.0	317.9	499.3	1059.1	2310.1	2192.1	5034.3	4905.2	2030.1	994.9
85°	145.5	144.8	203.0	338.1	679.9	1949.5	2137.6	2166.7	1987.5	611.3	359.8
87.5°	52.3	56.0	109.0	187.3	389.6	1357.6	1813.6	1127.0	1015.9	276.1	162.7
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°	4952.1	4952.1	4952.1	4952.1	4952.1	4952.1	4952.1	4952.1	4952.1	4952.1	4952.1
2.5°	4946.1	4950.6	4945.4	4915.6	4890.2	4849.2	4826.0	4793.9	4784.2	4779.8	4791.7
5°	4964.9	4966.4	4922.3	4844.0	4755.8	4652.1	4577.4	4485.7	4442.4	4423.7	4435.7
7.5°	4982.0	4975.3	4879.0	4729.0	4566.3	4385.6	4225.2	4078.1	3992.3	3957.2	3960.2
10°	4984.2	4955.9	4801.4	4569.2	4317.0	4052.0	3805.7	3578.8	3435.5	3342.2	3370.6
12.5°	4961.1	4913.4	4687.2	4362.5	4012.5	3651.2	3318.4	2978.0	2773.5	2678.8	2681.7
15°	4943.2	4856.6	4546.9	4119.2	3649.0	3170.6	2716.0	2316.0	2098.0	2001.1	1955.5
17.5°	4928.3	4795.4	4384.1	3845.2	3219.8	2613.0	2066.7	1709.9	1590.5	1562.1	1550.2
20°	4907.4	4730.5	4202.8	3528.1	2730.9	1989.0	1509.2	1333.0	1333.8	1366.6	1371.1
22.5°	4878.2	4656.6	4009.5	3172.1	2206.3	1448.7	1183.0	1132.2	1183.7	1246.4	1257.6
25°	4835.0	4569.2	3794.6	2778.7	1682.3	1113.6	1010.5	1008.3	1071.0	1136.7	1146.5
27.5°	4773.8	4455.0	3555.7	2356.3	1239.7	946.4	905.4	921.0	967.3	1015.0	1018.8
30°	4691.6	4322.2	3292.2	1910.7	971.8	842.7	838.2	852.4	880.7	914.3	917.3
32.5°	4601.4	4187.1	3010.9	1479.3	832.2	786.7	791.2	797.9	811.3	824.7	827.7
35°	4519.2	4049.1	2722.7	1124.0	765.7	750.1	747.1	745.6	747.1	742.6	743.4
37.5°	4466.3	3934.9	2422.7	894.9	727.7	718.0	709.1	697.8	685.2	677.7	679.2
40°	4446.8	3849.8	2118.9	773.3	696.3	689.6	672.5	648.6	633.6	629.2	629.2
42.5°	4499.1	3805.7	1825.6	712.1	670.2	659.1	630.7	603.1	591.9	591.2	590.4
45°	4658.9	3823.6	1546.5	678.4	646.4	624.7	587.4	564.2	556.8	558.3	557.5
47.5°	4945.4	3936.3	1307.6	656.1	622.5	594.1	552.3	533.7	524.7	524.7	525.5
50°	5432.8	4199.8	1117.3	637.4	602.3	565.7	527.0	503.8	491.9	491.1	491.1
52.5°	6142.6	4671.5	998.6	621.7	579.9	540.4	501.5	472.5	458.2	455.2	453.8
55°	7032.3	5347.7	965.8	611.3	550.1	512.7	471.0	441.8	426.2	419.5	418.7
57.5°	8027.1	6170.2	1030.8	598.6	519.4	479.9	437.4	409.8	393.3	385.1	384.4
60°	9034.1	7068.1	1295.7	580.6	494.1	444.1	403.1	377.6	361.3	352.3	350.8
62.5°	10042.4	8014.5	1836.8	579.1	476.2	409.8	368.0	346.3	330.6	320.9	318.7
65°	11179.9	9050.5	2451.8	618.7	470.2	378.4	332.1	315.0	301.5	292.6	291.9
67.5°	12486.0	10220.0	2392.9	700.1	490.4	350.1	298.6	285.1	275.4	267.9	267.2
70°	13098.8	10037.1	1487.5	757.5	518.7	322.4	266.4	256.7	249.3	244.1	241.8
71°	12842.0	9530.4	1247.2	750.8	515.7	310.5	253.8	246.3	238.8	234.4	232.1
72.5°	12141.9	8691.4	1040.4	698.6	482.2	288.9	237.4	229.9	223.2	218.0	216.5
75°	10895.5	7762.2	833.0	558.3	384.4	244.1	208.2	200.0	194.8	191.8	188.8
77.5°	8009.3	5539.5	644.1	441.1	282.9	199.3	177.6	171.7	166.5	162.0	159.8
80°	3068.3	2145.8	433.6	329.1	207.5	157.5	143.3	140.3	135.1	132.1	132.1
82.5°	826.2	641.1	231.4	199.3	138.8	115.0	109.7	108.2	103.8	97.8	98.6
85°	334.3	282.9	129.9	109.7	85.1	67.9	73.9	74.6	69.4	61.9	62.7
87.5°	147.0	120.2	72.4	48.5	37.4	26.1	33.6	33.6	30.6	25.3	23.1
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)