

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: P651509

Luminaire Tested: **GALN-SA7D-840-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651509
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-840-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38336.2 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

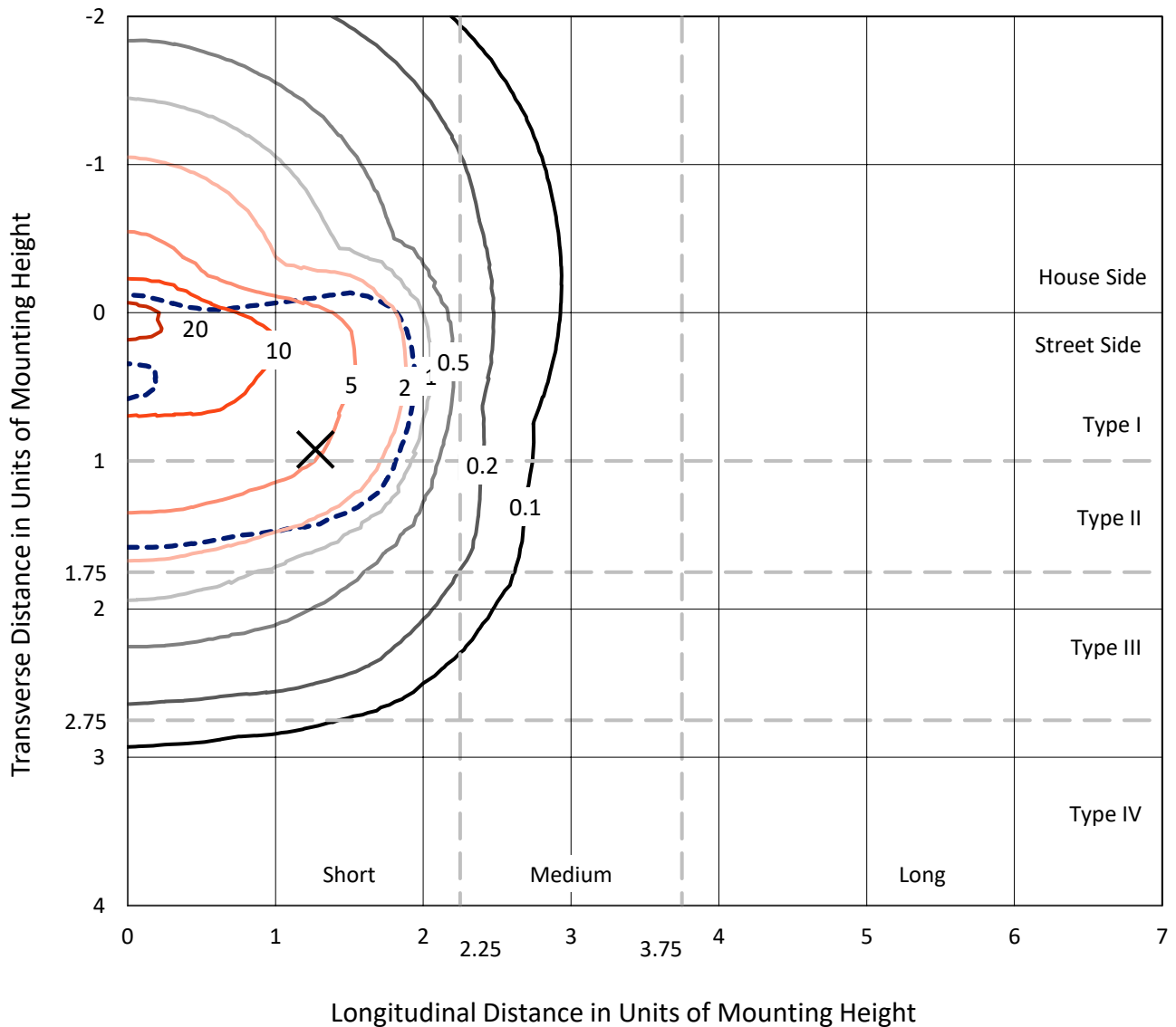
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

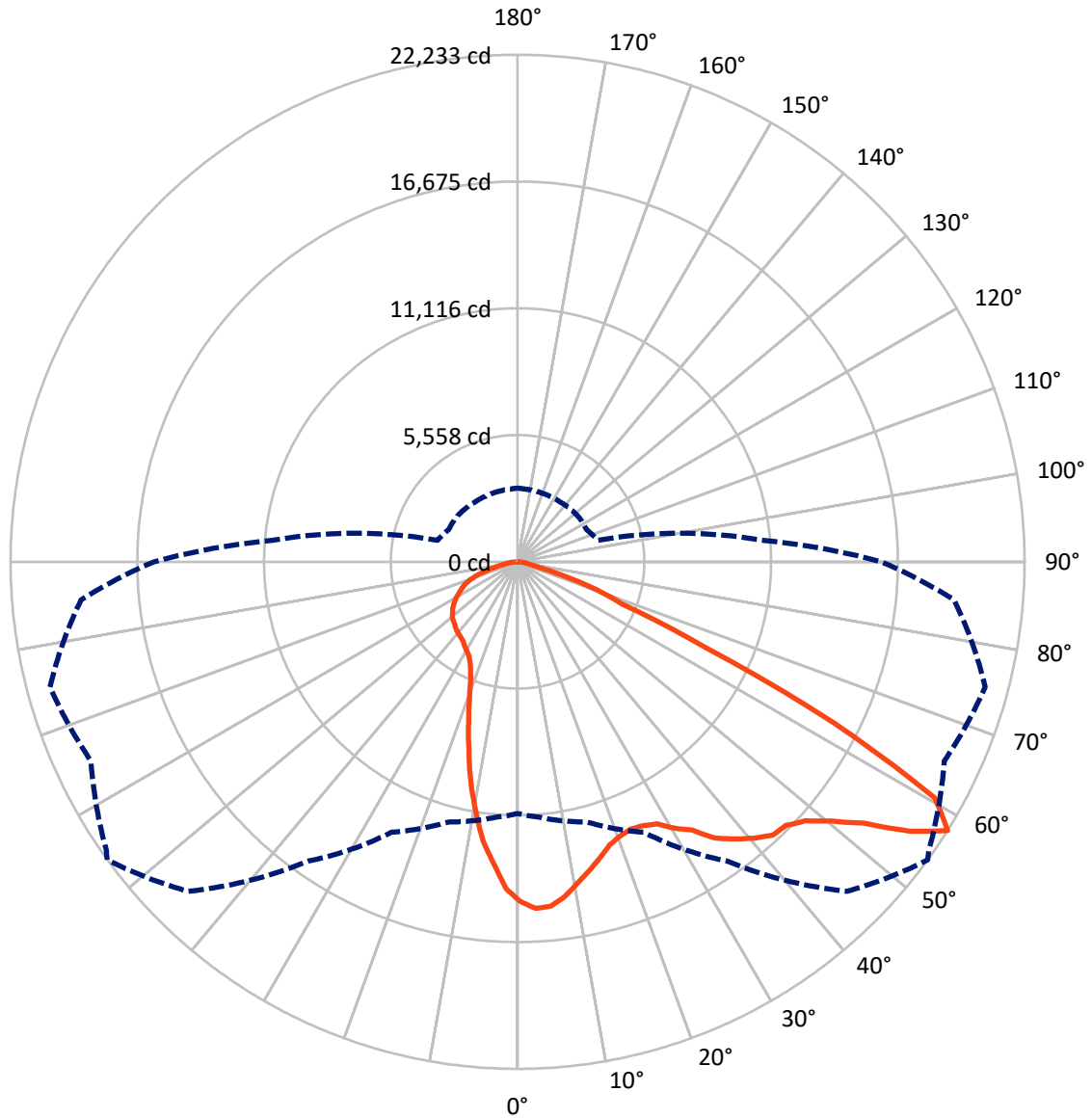
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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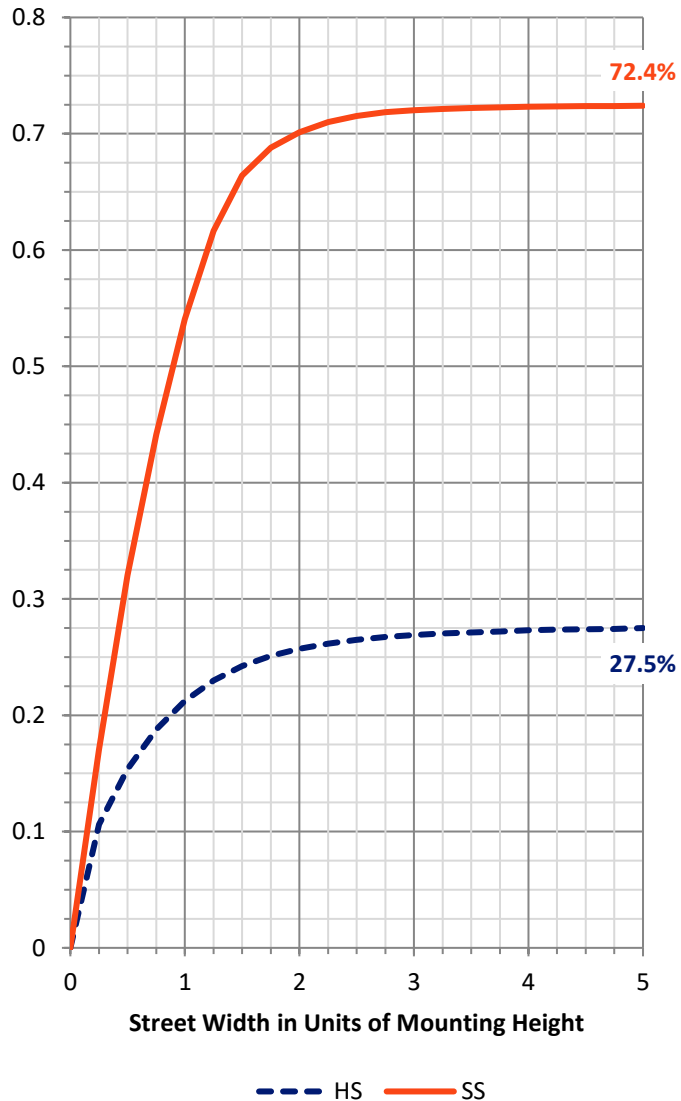
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10605.9	0.0	10605.9
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	27730.2	0.0	27730.2
	% Fixture	72.3	0.0	72.3
Total	Lumens	38336.2	0.0	38336.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1285.1	3.4
10°-20°	2975.4	7.8
20°-30°	4180.4	10.9
30°-40°	5844.3	15.2
40°-50°	7912.0	20.6
50°-60°	9637.2	25.1
60°-70°	5019.5	13.1
70°-80°	1286.2	3.4
80°-90°	196.2	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°	38336.2	100.0
0°-180°	38336.2	100.0

Coefficient of Utilization



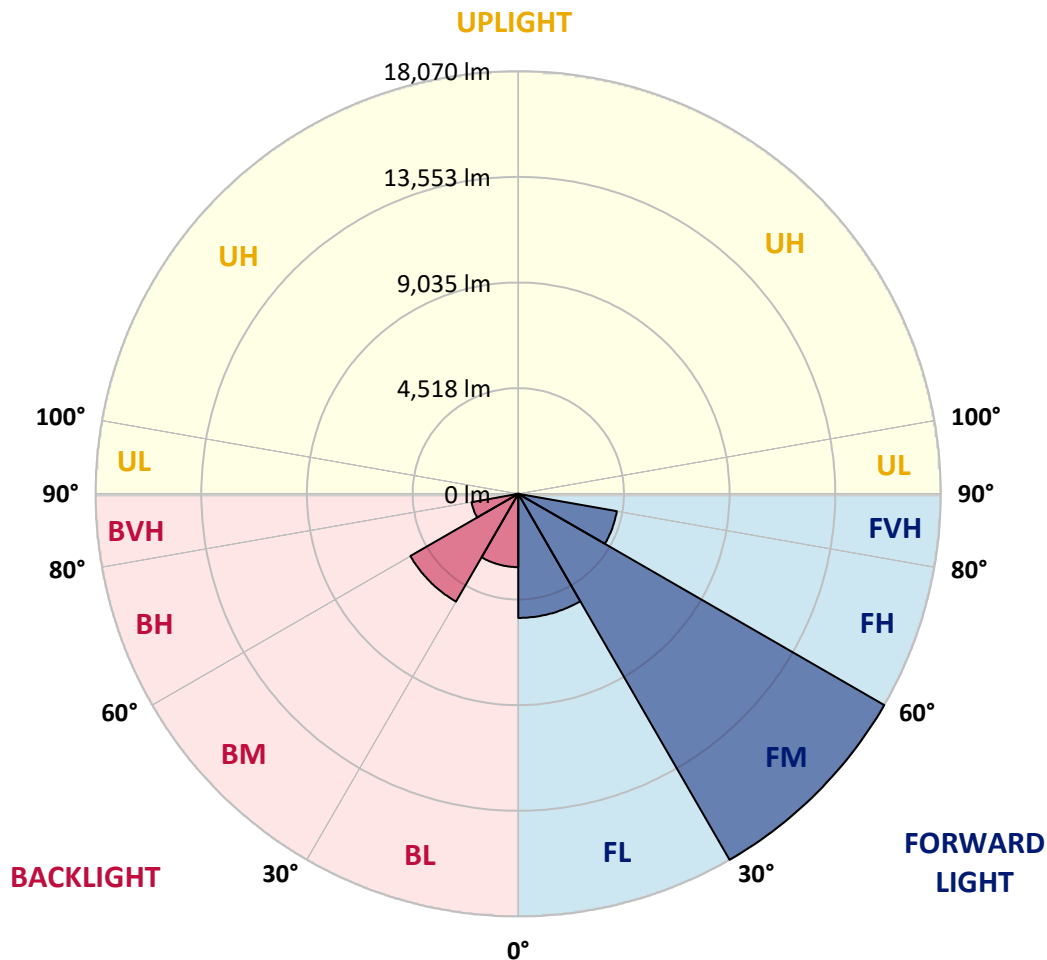
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5306.2	13.8			
FM (30°-60°)	18070.5	47.1			
FH (60°-80°)	4279.4	11.2			G2/5000
FVH (80°-90°)	74.1	0.2			G1/100
BL (0°-30°)	3134.6	8.2	B4/5000		
BM (30°-60°)	5323.0	13.9	B4/8500		
BH (60°-80°)	2026.3	5.3	B3/2500		G3/2500
BVH (80°-90°)	122.1	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	14900.8	14900.8	14900.8	14900.8	14900.8	14900.8	14900.8	14900.8	14900.8	14900.8	14900.8
2.5°	15324.6	15265.5	15275.3	15354.1	15255.6	15216.2	15216.2	15024.0	15038.8	14905.7	14871.2
5°	14969.8	14831.9	14925.5	15043.7	15063.4	15102.8	15166.9	15117.6	14979.6	14836.8	14605.1
7.5°	14043.4	14166.6	14201.1	14284.9	14462.3	14624.9	14826.9	14688.9	14684.0	14541.1	14403.1
10°	13230.4	13156.5	13343.7	13466.9	13762.5	14033.6	14344.0	14329.2	14403.1	14240.6	14004.0
12.5°	12422.2	12363.1	12451.8	12732.7	13146.6	13540.9	13910.4	13772.4	14166.6	14137.0	13629.5
15°	11564.9	11609.2	11737.3	11998.5	12540.6	13013.5	13481.7	13486.6	13836.5	13954.7	13274.8
17.5°	10963.7	10914.5	11077.1	11466.4	11949.3	12515.9	13048.0	13156.5	13693.6	13762.5	13166.4
20°	10515.4	10584.3	10796.2	10993.3	11550.1	12235.0	12836.2	12875.6	13664.0	13851.3	12993.9
22.5°	10407.0	10367.5	10436.5	10756.8	11215.1	11959.1	12722.8	12870.7	13659.1	13821.7	12668.7
25°	10293.6	10421.7	10416.8	10737.0	11072.1	11737.3	12816.5	12979.1	13920.2	13974.5	12713.0
27.5°	10549.8	10535.0	10673.0	10697.6	11111.5	11796.5	13013.5	13136.8	14353.9	14309.5	12747.5
30°	10806.1	10732.2	10815.9	11106.7	11298.8	12136.5	13555.6	13545.7	14915.6	14886.0	12855.9
32.5°	11121.4	11086.9	11141.1	11397.3	11722.5	12589.9	14013.8	14304.6	15487.2	15674.5	13230.4
35°	11180.5	11323.5	11451.6	11796.5	12259.7	13324.0	14876.2	15117.6	16147.5	16733.9	13944.9
37.5°	11555.0	11609.2	11909.8	12520.8	12944.6	14304.6	15423.1	15575.9	16748.6	17413.8	14698.8
40°	11954.1	12018.2	12471.5	13112.1	13693.6	14945.2	15935.6	15984.9	16940.9	17936.2	15191.6
42.5°	12496.2	12555.3	13003.7	13806.9	14585.5	15492.1	16388.9	16443.1	16926.1	18537.3	15975.0
45°	13058.0	13200.8	13728.1	14639.6	15339.3	16132.7	16492.4	16714.1	17064.0	19074.5	16610.7
47.5°	13846.3	13979.4	14413.0	15304.9	16122.8	16694.4	16970.4	17187.2	17394.2	19542.6	17019.7
50°	14684.0	14708.7	15235.9	16044.0	16645.2	17330.1	17862.3	17936.2	17827.8	20084.6	17714.4
52.5°	15300.0	15378.8	15787.8	16576.2	17473.0	18315.6	19044.9	19123.7	18911.8	20286.6	17951.0
55°	14279.9	14235.6	14900.8	15950.4	18029.8	19784.0	20843.4	20902.6	19700.3	20912.4	18724.6
57.5°	11037.6	11249.6	11816.2	13082.6	16019.4	20434.4	22232.9	22021.1	20646.3	21227.8	19217.4
60°	8022.0	7972.8	8352.1	9199.7	12072.4	17611.0	21020.8	21237.6	19872.7	19133.6	15846.9
62.5°	6533.9	6464.9	6494.5	6524.1	7790.4	11688.0	15561.1	15556.1	15304.9	13752.7	10687.8
65°	5223.2	5385.8	5400.6	5622.3	5784.9	6982.3	9017.4	9500.3	8273.3	6785.2	4922.6
67.5°	3937.1	3877.9	4075.1	4863.5	5169.0	5040.9	4922.6	4976.8	3537.9	2552.4	2404.7
70°	2320.8	2296.2	2532.8	3390.2	4257.4	4006.1	3710.4	3715.4	2429.2	1783.8	1985.8
72.5°	1271.3	1266.4	1315.7	1719.7	2419.4	2513.1	2227.2	2296.2	1448.7	1443.7	1552.1
75°	709.6	694.8	680.0	758.8	872.2	921.5	941.2	951.0	995.3	1113.7	1158.0
77.5°	261.1	251.3	251.3	290.7	369.5	463.2	586.3	596.3	704.7	808.1	852.4
80°	88.7	98.6	133.0	182.3	246.4	330.2	399.1	409.0	497.7	566.7	581.5
82.5°	54.2	59.1	88.7	128.1	177.4	231.6	295.6	300.6	369.5	413.9	433.6
85°	24.6	29.6	49.3	78.8	113.4	152.7	157.7	157.7	152.7	157.7	147.8
87.5°	0.0	0.0	9.8	9.8	9.8	14.8	19.7	14.8	24.6	29.6	29.6
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°	14900.8	14900.8	14900.8	14900.8	14900.8	14900.8	14900.8	14900.8	14900.8	14900.8	14900.8
2.5°	14767.8	14713.5	14546.0	14398.2	14353.9	14156.8	13866.1	13900.6	13688.6	13787.2	13683.7
5°	14565.8	14383.5	13954.7	13772.4	13294.4	13077.6	12929.8	12560.3	12387.8	12353.3	12205.4
7.5°	14048.4	13935.0	13397.9	12905.1	12397.6	11964.0	11407.2	11027.8	10756.8	10682.9	10466.1
10°	13639.3	13388.0	12644.0	11895.0	11170.7	10416.8	9692.4	9125.8	8849.8	8529.5	8421.1
12.5°	13235.3	12855.9	11850.7	10889.9	9953.6	9002.6	8125.5	7435.6	6834.5	6691.6	6642.3
15°	12984.0	12323.8	11141.1	9983.2	8652.7	7411.0	6533.9	6080.6	5711.0	5558.3	5666.7
17.5°	12653.9	11885.2	10461.1	8918.8	7455.3	6312.1	5577.9	5297.1	5164.1	5178.8	5134.5
20°	12240.0	11471.2	9569.2	7953.0	6386.0	5474.5	5055.7	4952.1	4971.9	5006.4	4991.6
22.5°	11944.3	10968.7	8923.8	6967.5	5518.8	5011.3	4838.9	4764.9	4828.9	4858.5	4833.9
25°	11717.7	10540.0	8140.3	6095.3	5016.2	4750.1	4671.3	4666.4	4764.9	4804.3	4779.7
27.5°	11510.7	10140.9	7361.7	5430.2	4681.2	4548.1	4523.5	4582.6	4646.7	4686.1	4720.5
30°	11387.5	9835.3	6632.5	4873.3	4513.6	4449.6	4405.2	4459.4	4493.9	4533.3	4513.6
32.5°	11505.7	9618.5	5927.8	4558.0	4375.6	4311.6	4370.7	4336.2	4395.3	4429.8	4375.6
35°	11875.3	9426.3	5425.2	4390.4	4218.0	4242.6	4252.4	4237.6	4262.3	4232.8	4296.8
37.5°	12240.0	9357.4	4962.0	4247.6	4144.0	4144.0	4134.2	4104.6	4153.9	4144.0	4173.6
40°	12703.1	9401.7	4567.8	4094.7	4075.1	4065.2	4025.8	4020.8	4001.1	4006.1	4015.9
42.5°	13107.2	9500.3	4341.2	3996.2	4011.0	4030.7	3956.8	3897.7	3922.3	3873.1	3873.1
45°	13535.9	9588.9	4139.1	3927.2	3912.4	3907.5	3848.4	3813.9	3794.2	3799.1	3843.5
47.5°	14211.0	9717.1	3986.3	3833.6	3843.5	3769.5	3754.7	3710.4	3730.2	3759.7	3764.7
50°	14688.9	9988.1	3868.1	3725.2	3759.7	3710.4	3621.8	3602.0	3602.0	3651.3	3641.4
52.5°	15024.0	10367.5	3754.7	3607.0	3621.8	3582.3	3552.7	3508.4	3478.8	3547.8	3582.3
55°	16049.0	10998.3	3725.2	3508.4	3503.4	3464.1	3409.8	3365.5	3350.7	3360.6	3429.5
57.5°	15950.4	10801.1	3631.6	3335.9	3326.1	3271.9	3217.7	3202.9	3198.0	3207.8	3227.5
60°	12949.5	7977.6	3242.3	3138.9	3124.1	3114.2	3060.0	3000.9	2971.3	3000.9	2976.2
62.5°	8568.9	5341.4	2858.0	2902.3	2912.1	2887.5	2798.8	2739.7	2749.6	2784.0	2729.9
65°	4208.1	3138.9	2591.9	2710.1	2720.0	2651.0	2567.2	2498.3	2463.8	2493.3	2468.7
67.5°	2404.7	2399.7	2375.1	2498.3	2493.3	2424.4	2291.3	2232.2	2173.1	2182.9	2168.1
70°	2040.0	2079.4	2128.7	2202.6	2197.7	2118.8	1961.1	1916.8	1833.0	1823.2	1798.6
72.5°	1606.4	1675.4	1783.8	1838.0	1793.6	1695.0	1591.6	1517.7	1443.7	1399.4	1414.2
75°	1192.5	1291.0	1350.1	1384.6	1315.7	1261.4	1177.7	1089.0	1000.3	960.8	946.1
77.5°	867.2	896.8	951.0	975.6	931.3	877.1	827.8	739.2	655.4	601.1	586.3
80°	606.1	625.8	665.2	665.2	665.2	640.6	576.5	487.9	433.6	384.3	374.5
82.5°	423.8	443.5	482.9	463.2	458.3	428.7	389.3	320.3	261.1	226.6	216.8
85°	147.8	162.6	197.1	236.5	251.3	246.4	221.8	177.4	138.0	113.4	103.4
87.5°	34.5	34.5	39.4	34.5	34.5	39.4	34.5	34.5	34.5	24.6	19.7
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)