

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: P652520

Luminaire Tested: **GALN-SA7B-840-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652520
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7B-840-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33521.4 lumens
Efficiency: N/A
Efficacy: 117.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

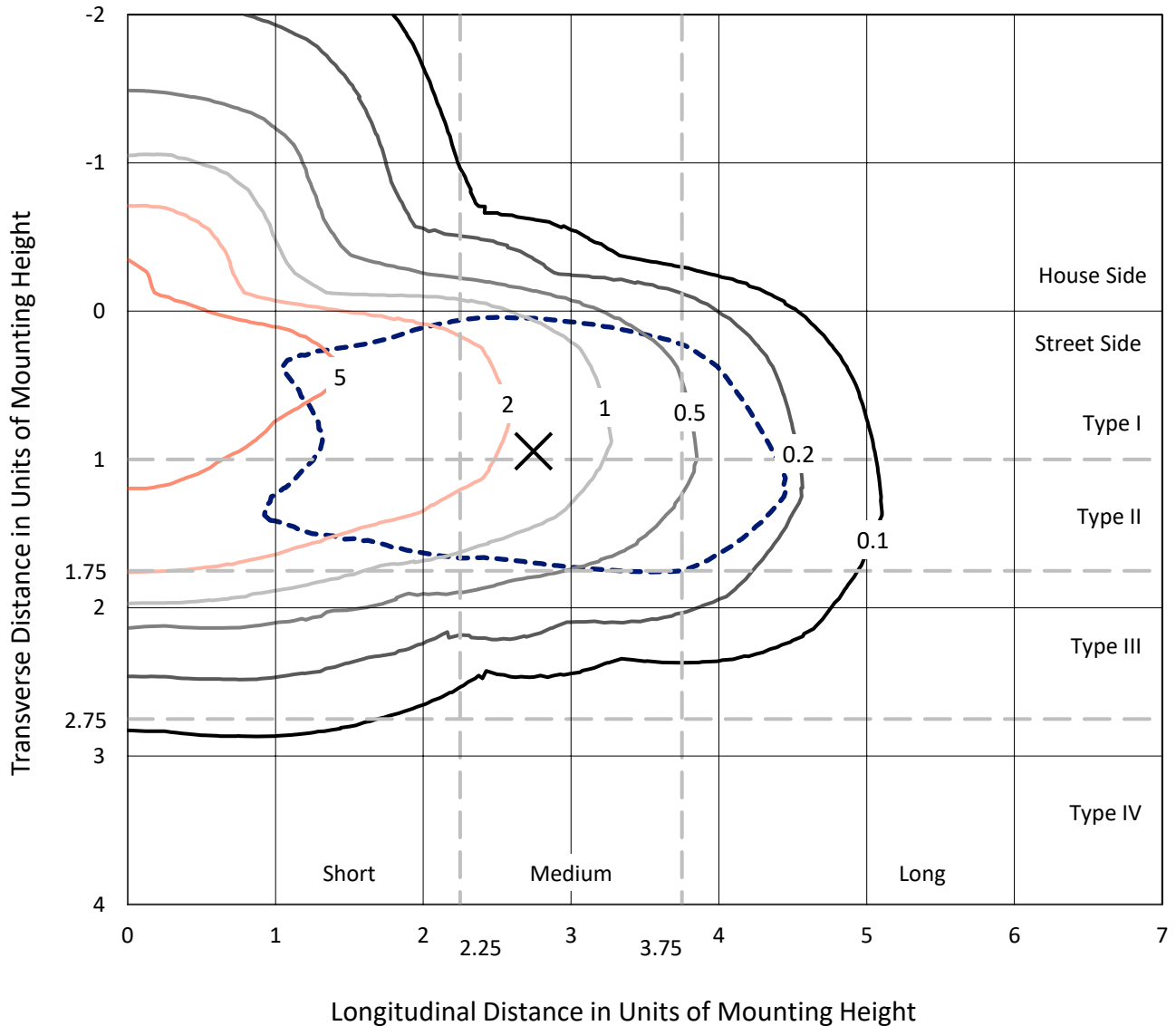
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

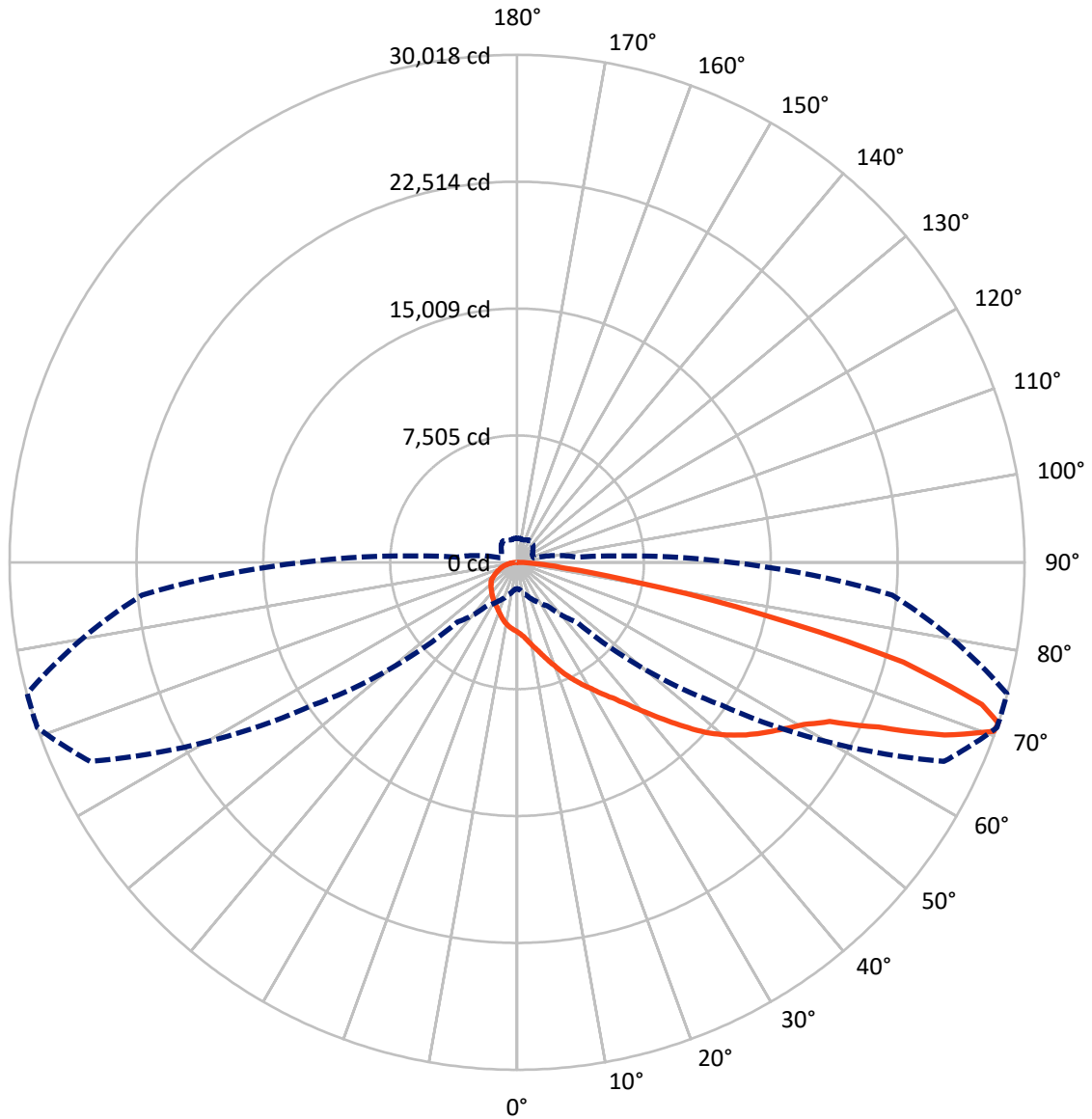
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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

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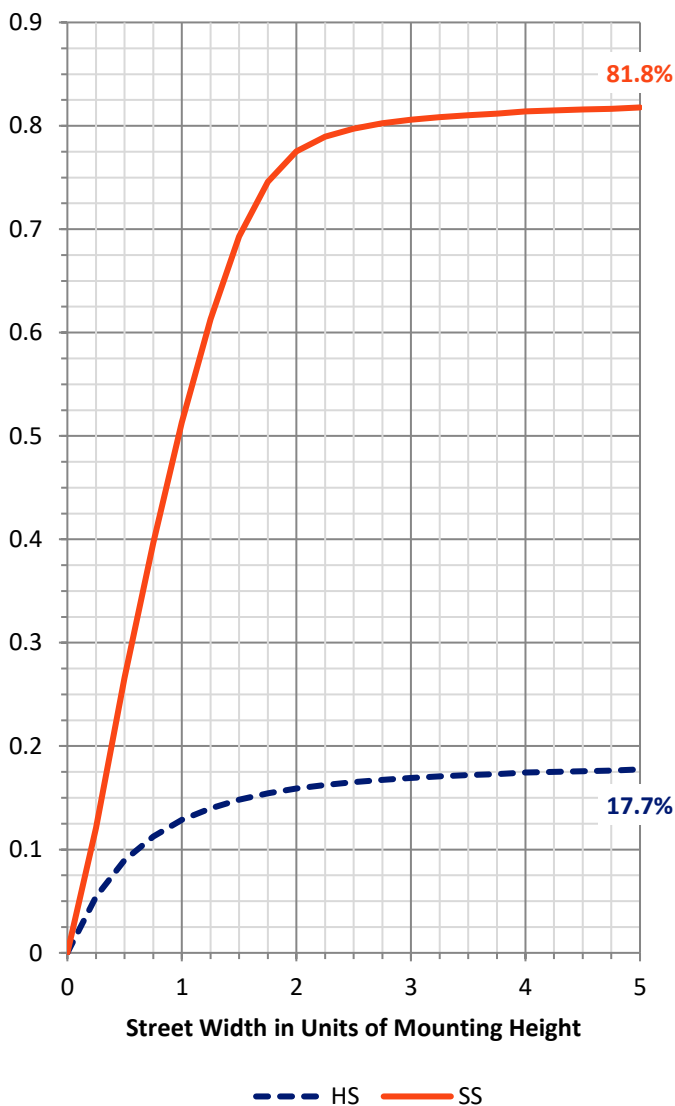
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6028.7	0.0	6028.7
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	27492.7	0.0	27492.7
	% Fixture	82.0	0.0	82.0
Total	Lumens	33521.4	0.0	33521.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	413.1	1.2
10°-20°	1342.1	4.0
20°-30°	2345.4	7.0
30°-40°	3488.5	10.4
40°-50°	5139.8	15.3
50°-60°	7195.8	21.5
60°-70°	8048.2	24.0
70°-80°	4916.2	14.7
80°-90°	632.4	1.9
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°	33521.4	100.0
0°-180°	33521.4	100.0

Coefficient of Utilization



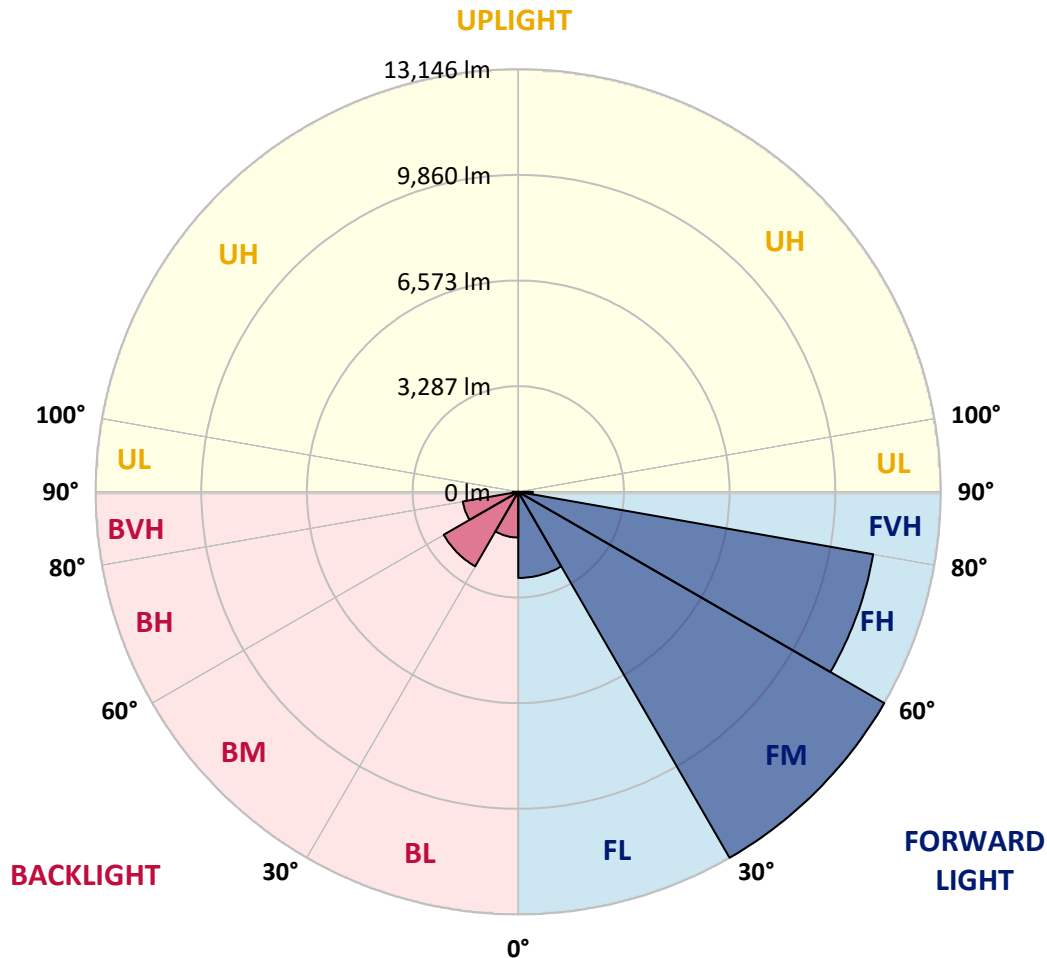
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2678.4	8.0			
FM (30°-60°)	13146.4	39.2			
FH (60°-80°)	11212.8	33.4			G4/12000
FVH (80°-90°)	455.0	1.4			G3/500
BL (0°-30°)	1422.2	4.2	B3/2500		
BM (30°-60°)	2677.6	8.0	B3/5000		
BH (60°-80°)	1751.6	5.2	B3/2500		G3/2500
BVH (80°-90°)	177.4	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	4114.1	4114.1	4114.1	4114.1	4114.1	4114.1	4114.1	4114.1	4114.1	4114.1	4114.1
2.5°	4567.3	4545.2	4547.0	4515.7	4475.2	4431.0	4368.3	4313.1	4268.8	4243.1	4167.5
5°	5061.1	5039.0	5011.4	4943.1	4913.7	4805.0	4666.8	4541.6	4445.7	4392.3	4241.2
7.5°	5460.9	5455.4	5448.0	5409.3	5333.8	5182.7	5064.8	4847.4	4705.5	4604.1	4346.2
10°	5707.8	5716.9	5722.5	5729.9	5698.5	5619.3	5457.2	5182.7	5002.1	4873.2	4482.6
12.5°	5833.1	5842.3	5873.6	5941.7	5984.1	5974.9	5842.3	5573.3	5324.5	5155.1	4628.1
15°	5910.5	5925.2	5980.4	6070.8	6212.6	6302.9	6238.4	5989.7	5716.9	5516.2	4801.3
17.5°	5995.2	6011.8	6072.6	6201.5	6387.6	6582.9	6652.9	6439.2	6142.6	5903.1	4994.8
20°	6043.1	6065.2	6151.8	6321.3	6538.7	6822.4	7054.6	6942.2	6617.9	6352.6	5217.7
22.5°	6120.5	6138.9	6212.6	6393.1	6652.9	7008.5	7456.2	7432.3	7146.7	6804.0	5462.7
25°	6330.5	6360.0	6396.8	6505.6	6756.1	7198.3	7789.7	7955.5	7658.9	7275.7	5687.5
27.5°	6726.7	6750.5	6748.8	6763.5	6905.4	7362.3	8079.0	8473.2	8167.4	7752.8	5904.9
30°	7178.0	7187.2	7194.6	7161.5	7192.7	7529.9	8344.2	8985.4	8679.5	8242.9	6094.6
32.5°	7727.0	7745.4	7682.9	7598.1	7572.3	7778.7	8563.5	9497.6	9285.7	8740.3	6282.6
35°	8375.6	8423.5	8296.4	8147.1	8042.1	8136.1	8858.3	10020.9	9906.6	9376.0	6531.3
37.5°	9116.2	9175.1	9057.2	8764.3	8615.1	8640.9	9243.3	10667.5	10691.5	10100.1	6901.7
40°	9722.4	9799.8	9803.5	9388.9	9162.3	9191.8	9731.5	11363.9	11638.5	10995.5	7338.3
42.5°	10122.2	10197.7	10276.9	10033.7	9796.1	9963.7	10300.9	12119.3	12703.4	12082.5	7948.1
45°	10560.7	10628.8	10673.0	10562.5	10429.8	10864.7	10988.1	12922.6	13838.3	13296.6	8615.1
47.5°	11069.2	11144.7	11187.1	11082.1	11032.3	11655.1	11728.8	13672.5	15050.6	14475.8	9352.1
50°	11747.2	11804.3	11782.2	11715.9	11704.8	12261.2	12439.9	14374.5	16051.1	15745.2	10116.6
52.5°	12591.0	12659.2	12683.1	12589.2	12546.8	12694.1	13012.9	15013.8	16961.2	16835.9	10932.8
55°	13101.4	13210.1	13574.8	13722.3	13823.6	13254.2	13630.1	15719.4	17777.4	17985.5	11809.8
57.5°	12447.3	12587.3	13403.5	14140.5	15093.0	14654.5	14505.2	16456.4	18593.6	19100.2	12860.0
60°	10851.8	10883.1	11935.1	13292.9	15209.1	16454.5	16331.1	17628.1	19477.9	20224.1	14243.7
62.5°	7528.0	7594.4	8838.0	11004.7	13775.7	17103.1	19437.4	19651.1	20745.5	21906.2	16272.2
65°	3882.0	3795.3	4928.4	6916.4	10385.7	15562.8	21954.1	23370.9	23494.3	24537.2	19127.9
67.5°	2389.6	2428.3	2958.9	4038.6	6140.7	11310.5	21690.7	27916.2	27265.8	27766.9	21779.1
70°	1794.5	1842.4	2207.2	2763.6	3743.8	6466.9	17443.9	29017.9	29926.2	29797.2	22586.1
71°	1560.6	1610.3	1989.8	2514.9	3145.0	4991.1	14696.9	27864.5	30018.3	29996.2	22282.0
72.5°	1330.2	1361.6	1658.2	2129.8	2651.3	3498.7	11041.6	24990.4	28737.8	29473.0	21196.9
75°	1044.6	1068.6	1201.3	1625.0	2087.4	2148.3	5925.2	18735.5	23603.1	25003.3	17646.5
77.5°	851.2	867.7	935.9	1206.8	1610.3	1521.8	3108.2	12194.9	14787.1	16196.6	10394.8
80°	676.2	694.6	735.1	818.0	1206.8	1085.1	1483.1	6179.4	7143.0	7128.2	4149.1
82.5°	525.1	530.6	578.5	600.6	825.4	770.1	803.3	2616.2	2898.1	2993.9	1497.9
85°	331.6	348.2	512.2	460.6	493.8	451.4	396.1	1039.1	1280.5	1262.1	598.8
87.5°	101.3	106.9	173.2	195.3	219.2	197.1	145.6	305.9	374.0	405.4	149.2
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°	4114.1	4114.1	4114.1	4114.1	4114.1	4114.1	4114.1	4114.1	4114.1	4114.1	4114.1
2.5°	4138.1	4117.8	4045.9	3986.9	3931.7	3870.9	3819.3	3804.6	3791.6	3786.2	3784.3
5°	4176.7	4115.9	3974.1	3858.0	3765.9	3681.1	3627.7	3603.8	3579.8	3579.8	3587.2
7.5°	4232.0	4121.5	3902.2	3729.0	3612.9	3533.7	3495.0	3491.3	3496.9	3502.4	3504.3
10°	4292.8	4117.8	3797.2	3581.7	3478.5	3441.6	3443.5	3474.8	3504.3	3526.4	3530.0
12.5°	4351.8	4095.7	3673.7	3443.5	3377.1	3384.5	3436.1	3506.1	3563.2	3594.5	3596.4
15°	4418.1	4060.7	3524.5	3312.6	3290.5	3347.7	3443.5	3550.3	3636.9	3688.5	3694.0
17.5°	4473.4	4001.7	3368.0	3185.5	3213.1	3318.2	3450.8	3589.0	3694.0	3758.5	3769.5
20°	4536.0	3926.2	3205.8	3063.9	3143.2	3285.0	3436.1	3585.4	3694.0	3756.7	3771.4
22.5°	4585.7	3819.3	3051.1	2964.4	3080.5	3244.5	3386.4	3506.1	3594.5	3627.7	3649.8
25°	4606.0	3684.8	2905.5	2883.4	3030.8	3178.1	3273.9	3342.1	3369.8	3366.1	3375.3
27.5°	4595.0	3530.0	2780.2	2818.9	2968.1	3074.9	3122.9	3117.3	3067.6	3021.5	3043.7
30°	4548.9	3345.8	2675.1	2752.6	2887.1	2946.0	2938.6	2866.8	2772.9	2686.2	2691.8
32.5°	4466.0	3146.9	2577.5	2677.0	2772.9	2798.6	2748.9	2654.9	2520.4	2408.0	2391.5
35°	4396.0	2957.0	2491.0	2590.4	2658.6	2645.7	2597.8	2476.2	2354.6	2255.1	2238.5
37.5°	4384.9	2794.9	2408.0	2492.8	2531.5	2513.1	2454.1	2350.9	2306.7	2231.2	2221.9
40°	4443.8	2680.7	2323.3	2389.6	2408.0	2393.3	2328.8	2269.9	2310.4	2292.0	2292.0
42.5°	4604.1	2619.9	2247.7	2286.4	2301.1	2312.2	2266.2	2216.5	2266.2	2181.4	2153.8
45°	4858.5	2621.7	2179.5	2185.1	2229.3	2268.0	2236.6	2163.0	2137.1	1967.7	1934.6
47.5°	5232.4	2684.4	2124.3	2089.3	2168.5	2233.0	2188.8	2081.9	1967.7	1855.3	1835.1
50°	5669.1	2796.7	2074.6	1989.8	2087.4	2188.8	2155.7	2030.3	1912.4	1844.2	1831.4
52.5°	6153.6	2938.6	2013.8	1879.2	1988.0	2168.5	2163.0	2022.9	1860.8	1814.8	1803.7
55°	6752.4	3078.6	1938.3	1750.3	1899.5	2152.0	2142.7	1962.1	1849.8	1816.6	1812.9
57.5°	7448.8	3281.3	1829.5	1619.5	1798.2	2083.7	2063.5	1925.3	1812.9	1789.0	1787.1
60°	8570.9	3596.4	1674.8	1499.8	1695.0	1964.0	1989.8	1862.6	1754.0	1748.4	1746.6
62.5°	10046.7	4038.6	1514.5	1376.3	1575.3	1809.2	1882.9	1778.0	1691.3	1719.0	1722.6
65°	12084.3	4410.7	1348.6	1271.3	1442.6	1660.0	1781.6	1698.7	1621.3	1674.8	1674.8
67.5°	13412.7	4418.1	1197.6	1162.6	1308.1	1534.7	1674.8	1604.7	1531.0	1621.3	1625.0
70°	13136.3	3870.9	1072.3	1048.3	1177.3	1400.3	1556.9	1501.5	1416.8	1497.9	1468.4
71°	12690.5	3566.9	1022.6	1004.1	1125.7	1335.8	1501.5	1455.5	1370.7	1424.1	1407.6
72.5°	11979.3	3097.1	941.5	945.1	1048.3	1254.7	1424.1	1376.3	1291.5	1321.0	1315.5
75°	10125.9	2704.7	805.2	821.7	901.0	1116.5	1269.4	1232.6	1145.9	1145.9	1140.5
77.5°	6330.5	1890.3	668.8	678.0	764.6	956.2	1090.7	1059.4	976.5	948.8	941.5
80°	2361.9	976.5	523.3	534.3	587.7	753.5	902.8	873.3	788.5	757.2	727.7
82.5°	893.6	490.1	385.1	375.8	432.9	574.8	707.4	672.5	606.2	530.6	508.5
85°	337.2	243.2	235.8	228.5	254.2	340.9	438.5	431.1	361.1	307.7	302.2
87.5°	88.5	79.2	92.1	68.2	71.8	64.5	66.4	27.7	12.9	5.6	3.7
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)