

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: P647472

Luminaire Tested: **GALN-SA5D-835-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P647472
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5D-835-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30356.1 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

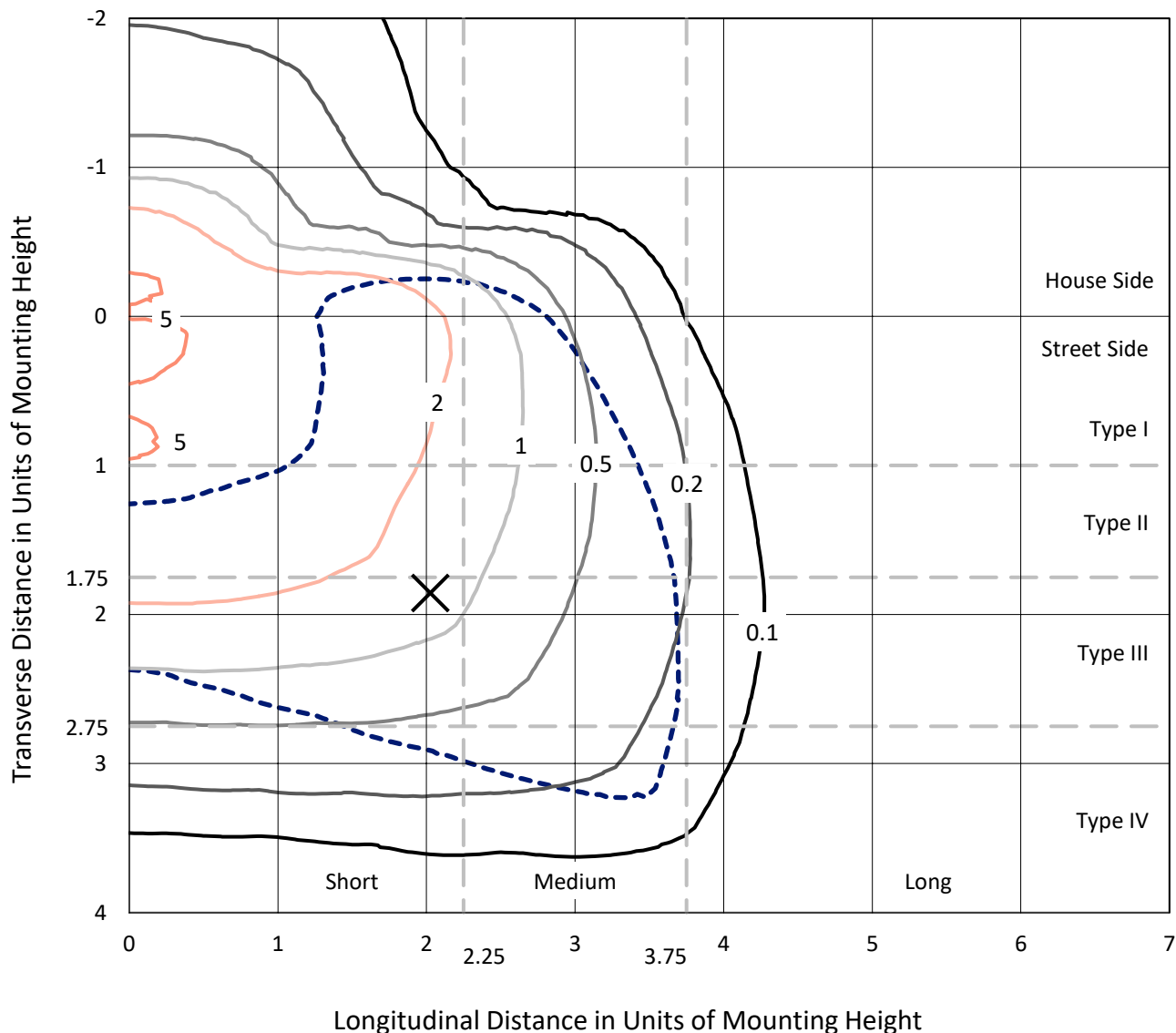
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

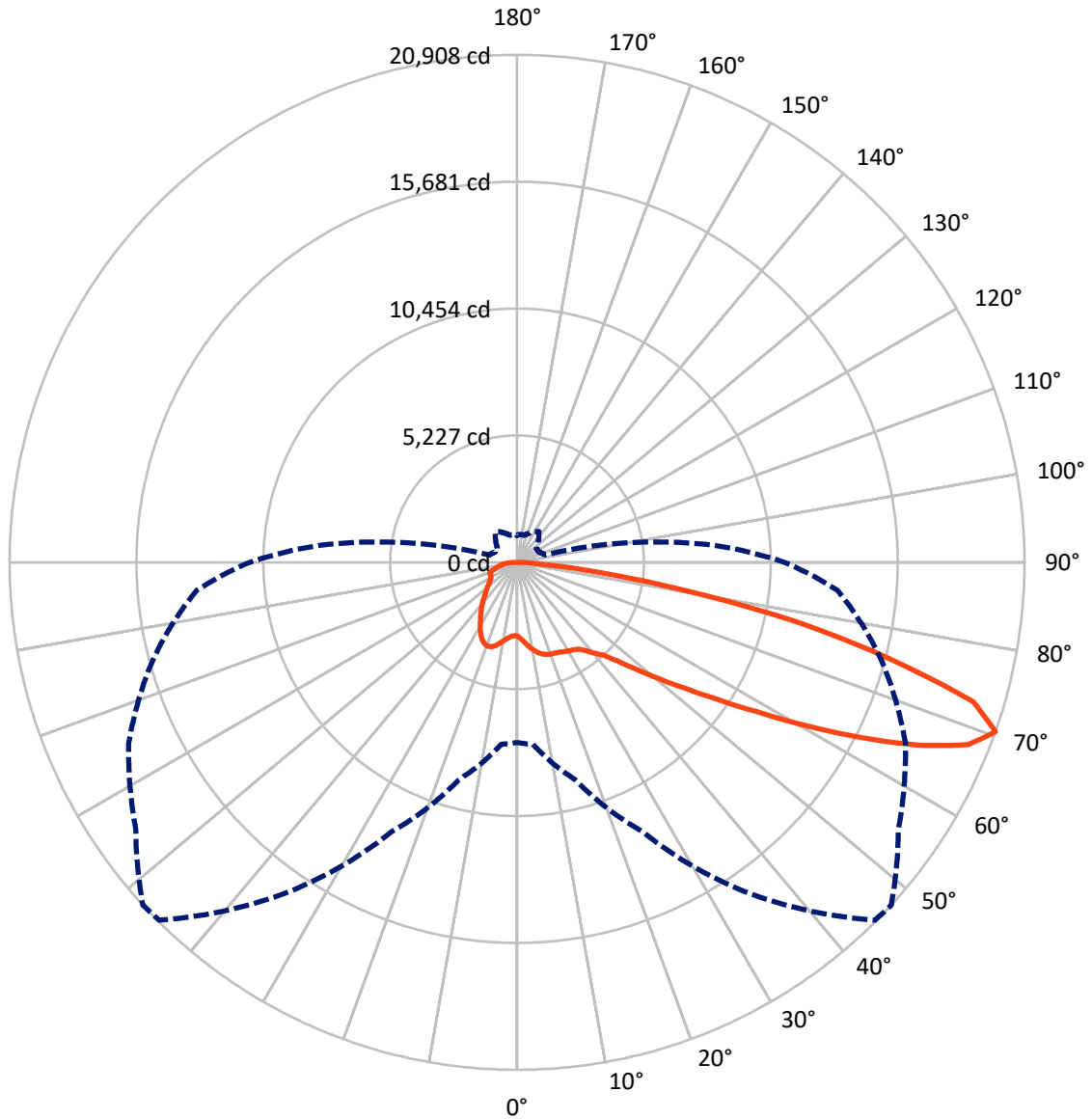
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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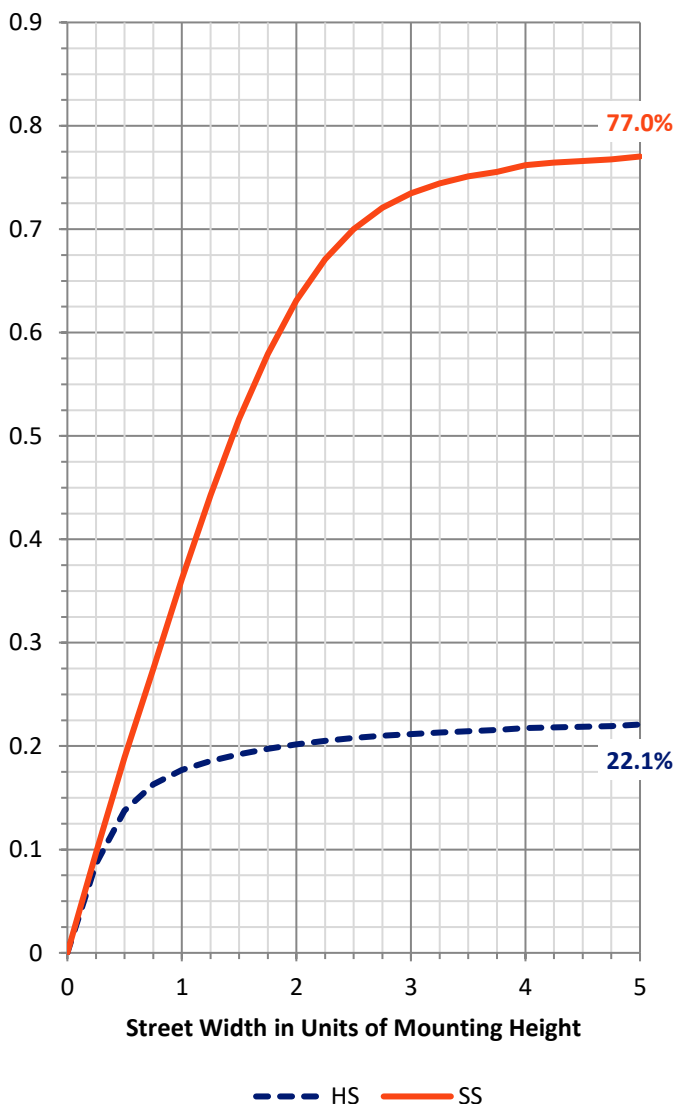
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6873.2	0.0	6873.2
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	23482.9	0.0	23482.9
	% Fixture	77.4	0.0	77.4
Total	Lumens	30356.1	0.0	30356.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.1	1.0
10°-20°	1050.1	3.5
20°-30°	1746.4	5.8
30°-40°	2475.2	8.2
40°-50°	3653.9	12.0
50°-60°	6328.8	20.8
60°-70°	8939.6	29.4
70°-80°	5139.0	16.9
80°-90°	709.1	2.3
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°	30356.1	100.0
0°-180°	30356.1	100.0

Coefficient of Utilization

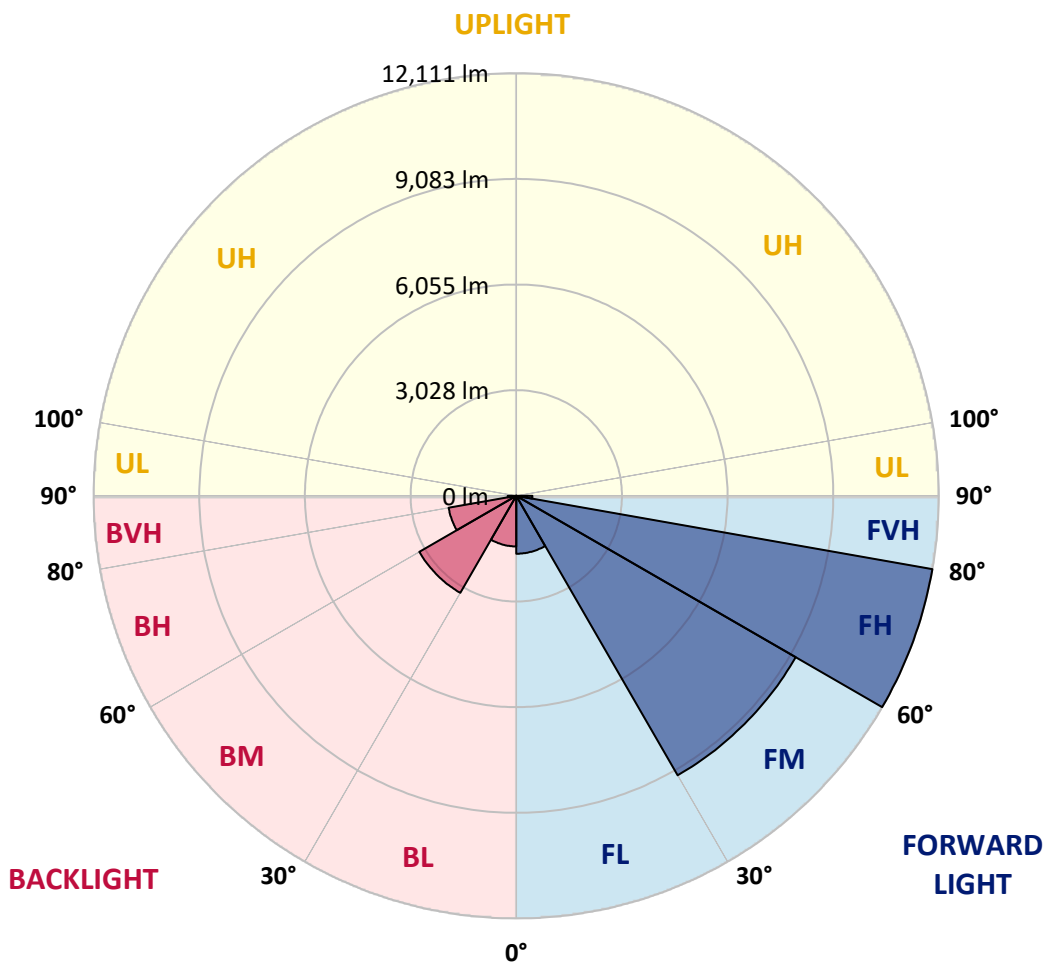


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1660.0	5.5			
FM (30°-60°)	9248.9	30.5			
FH (60°-80°)	12110.8	39.9			G5
FVH (80°-90°)	463.2	1.5			G3/500
BL (0°-30°)	1450.6	4.8	B3/2500		
BM (30°-60°)	3209.0	10.6	B3/5000		
BH (60°-80°)	1967.7	6.5	B3/2500		G3/2500
BVH (80°-90°)	245.9	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	3047.4	3047.4	3047.4	3047.4	3047.4	3047.4	3047.4	3047.4	3047.4	3047.4	3047.4
2.5°	3244.0	3232.5	3231.0	3206.6	3193.6	3169.2	3159.5	3136.7	3109.1	3081.5	3055.5
5°	3499.0	3499.0	3487.6	3453.5	3399.9	3344.7	3320.3	3276.5	3198.5	3135.1	3081.5
7.5°	3760.5	3763.7	3741.0	3690.7	3614.3	3525.0	3502.2	3437.2	3326.8	3234.2	3154.6
10°	3986.3	3986.3	3955.4	3887.2	3791.4	3693.9	3671.2	3598.0	3474.6	3359.3	3255.3
12.5°	4158.5	4158.5	4117.9	4028.5	3924.6	3836.9	3810.9	3741.0	3625.7	3497.3	3365.8
15°	4270.6	4262.4	4216.9	4116.2	4015.5	3939.2	3921.3	3862.9	3757.2	3627.3	3479.5
17.5°	4275.4	4272.2	4228.4	4143.9	4056.2	4004.2	3992.8	3953.8	3871.0	3747.5	3591.5
20°	4181.2	4187.7	4158.5	4098.4	4056.2	4033.4	4028.5	4015.5	3957.0	3841.7	3685.8
22.5°	4080.5	4091.9	4064.2	4031.7	4028.5	4051.2	4054.5	4057.7	4020.4	3908.3	3765.4
25°	4056.2	4064.2	4036.7	4007.4	4025.2	4085.4	4098.4	4111.4	4082.2	3987.9	3859.6
27.5°	4179.6	4173.1	4119.5	4056.2	4067.5	4148.7	4166.6	4181.2	4166.6	4085.4	3976.5
30°	4528.9	4507.7	4400.5	4215.4	4156.9	4213.7	4231.6	4272.2	4272.2	4212.1	4103.2
32.5°	5113.6	5073.1	4876.4	4512.6	4309.6	4275.4	4293.3	4359.9	4394.0	4346.9	4228.4
35°	5823.5	5781.3	5500.3	5011.3	4588.9	4398.9	4394.0	4468.7	4559.7	4454.1	4299.8
37.5°	6536.6	6492.8	6154.8	5605.8	4996.7	4658.8	4629.6	4655.6	4694.6	4501.2	4398.9
40°	7249.7	7197.7	6902.1	6270.2	5495.4	5003.2	4926.8	4809.9	4793.6	4655.6	4590.6
42.5°	7956.4	7909.2	7759.8	7015.8	6093.1	5339.4	5222.5	5021.1	5082.8	4999.9	4943.1
45°	8669.5	8672.7	8513.6	7852.4	6814.4	5960.0	5802.4	5487.3	5633.5	5602.6	5635.1
47.5°	9301.3	9293.3	9236.3	8664.6	7709.4	6759.2	6556.1	6190.6	6440.8	6554.5	6803.0
50°	9913.8	9908.9	9912.2	9585.6	8749.1	7709.4	7485.2	7101.9	7665.6	8060.3	8505.4
52.5°	10790.9	10818.6	10622.0	10535.9	10012.8	8831.9	8585.0	8188.6	9112.9	9735.1	10604.2
55°	11671.4	11648.6	11494.3	11583.6	11335.1	10160.7	9902.4	9587.3	10724.4	11404.9	12711.0
57.5°	12189.6	12197.7	12355.3	12792.2	12967.7	11817.6	11583.6	11340.0	12535.6	13018.0	14585.6
60°	12655.8	12693.1	13146.3	13971.5	14447.5	13853.0	13645.0	13407.9	14197.4	14389.0	16213.2
62.5°	12802.0	12917.3	13708.4	14942.9	15890.0	16149.8	15891.6	15368.5	15779.5	15704.8	17316.2
65°	12072.6	12230.1	13648.3	15306.8	17178.1	18329.8	18165.8	17194.4	17127.7	16677.8	17496.5
67.5°	10152.5	10310.2	12131.1	14543.4	17710.9	20217.4	20053.3	18526.4	17946.4	16768.7	16132.0
70°	7428.4	7527.5	9268.8	12244.8	16640.5	20850.9	20907.7	19176.1	17654.1	15532.6	13245.5
72.5°	4280.3	4499.6	5719.6	8614.3	13594.7	19249.3	19644.0	17824.6	15805.5	12957.9	9260.8
75°	1840.4	1845.3	2644.5	4751.4	9207.1	15472.5	15854.3	14775.6	12412.1	8960.3	4944.7
77.5°	875.6	891.8	1163.1	2121.5	5068.1	10690.2	11720.1	10438.5	7938.4	4304.7	1868.1
80°	568.5	579.9	711.5	1052.6	2485.3	6198.8	6916.7	6021.7	3502.2	1538.3	805.7
82.5°	344.4	347.7	476.0	643.2	1367.7	2807.0	3309.0	2613.7	1494.4	921.0	474.3
85°	209.5	211.2	289.2	398.0	830.1	969.7	995.7	987.7	877.2	602.7	253.4
87.5°	100.7	104.0	149.5	188.5	326.5	300.5	284.3	329.7	414.2	324.9	108.8
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°	3047.4	3047.4	3047.4	3047.4	3047.4	3047.4	3047.4	3047.4	3047.4	3047.4	3047.4
2.5°	3044.1	3039.3	3027.9	3023.0	3019.8	3021.4	3019.8	3019.8	3021.4	3021.4	3021.4
5°	3058.8	3050.6	3032.8	3032.8	3042.5	3065.3	3086.4	3102.6	3120.5	3118.8	3118.8
7.5°	3122.1	3107.5	3086.4	3092.8	3117.2	3153.0	3190.3	3226.0	3261.8	3265.0	3263.5
10°	3214.7	3200.1	3177.3	3185.5	3224.5	3278.0	3325.2	3377.2	3416.2	3427.5	3424.2
12.5°	3320.3	3291.0	3271.5	3294.3	3356.0	3427.5	3473.0	3512.0	3539.6	3555.8	3549.3
15°	3427.5	3399.9	3377.2	3424.2	3499.0	3565.5	3588.3	3594.8	3599.7	3615.9	3612.7
17.5°	3531.5	3494.1	3486.0	3547.7	3619.2	3648.4	3635.4	3607.8	3586.7	3599.7	3598.0
20°	3624.0	3594.8	3591.5	3653.3	3680.9	3653.3	3598.0	3549.3	3512.0	3515.2	3513.6
22.5°	3711.8	3689.0	3692.3	3718.2	3674.4	3580.2	3489.2	3422.6	3382.0	3390.2	3395.0
25°	3809.2	3786.5	3794.7	3752.4	3607.8	3443.7	3312.2	3255.3	3239.0	3255.3	3266.7
27.5°	3935.9	3921.3	3916.4	3754.0	3489.2	3242.3	3092.8	3071.8	3086.4	3122.1	3140.0
30°	4072.4	4072.4	4046.4	3726.4	3326.8	3000.3	2870.3	2873.6	2924.0	2974.3	2992.2
32.5°	4204.0	4231.6	4150.4	3651.7	3117.2	2764.8	2665.6	2668.9	2712.8	2774.5	2790.8
35°	4312.8	4392.4	4239.7	3515.2	2870.3	2566.6	2491.8	2448.0	2449.6	2496.8	2509.7
37.5°	4462.2	4610.1	4291.7	3312.2	2607.2	2397.6	2313.1	2236.8	2186.4	2167.0	2167.0
40°	4722.1	4939.8	4304.7	3011.7	2358.6	2236.8	2116.6	2025.6	1928.1	1840.4	1824.2
42.5°	5162.4	5436.9	4278.7	2665.6	2134.5	2059.8	1942.8	1830.7	1695.9	1572.4	1562.7
45°	5942.1	6083.4	4208.9	2306.6	1934.6	1889.2	1775.5	1653.6	1510.7	1400.2	1392.1
47.5°	7191.2	6991.5	4116.2	1988.3	1752.7	1739.7	1652.1	1510.7	1367.7	1291.4	1283.3
50°	9015.5	8420.9	4103.2	1757.6	1606.6	1613.1	1541.6	1411.6	1286.5	1223.2	1213.4
52.5°	11211.7	10147.7	4189.4	1595.2	1478.2	1502.6	1466.9	1346.6	1236.2	1182.6	1172.9
55°	13342.9	11700.6	4241.4	1468.4	1358.0	1403.5	1408.4	1307.6	1206.9	1153.4	1146.9
57.5°	15072.9	12870.2	4010.7	1353.1	1254.1	1323.9	1359.6	1284.9	1192.4	1151.7	1145.2
60°	16276.5	13422.5	3354.4	1250.8	1177.7	1260.6	1341.7	1286.5	1228.1	1232.9	1236.2
62.5°	16660.0	13177.2	2516.2	1174.4	1125.7	1239.4	1371.0	1353.1	1293.0	1330.4	1336.9
65°	16024.8	12163.6	1824.2	1114.4	1080.2	1254.1	1458.7	1401.9	1270.3	1297.9	1297.9
67.5°	13898.4	10479.0	1419.7	1059.1	1028.2	1281.7	1546.4	1397.0	1216.7	1249.2	1219.9
70°	11024.9	8105.8	1182.6	997.4	973.0	1241.1	1554.6	1346.6	1153.4	1159.9	1104.6
72.5°	7316.4	5329.6	1016.9	938.9	888.5	1115.9	1487.9	1281.7	1091.6	1054.2	999.0
75°	3585.0	2657.5	886.9	865.8	778.1	971.4	1397.0	1219.9	1025.0	966.5	935.7
77.5°	1388.9	1130.6	757.0	773.2	677.4	856.1	1276.8	1132.2	937.3	857.7	833.3
80°	674.2	641.7	620.5	644.9	557.2	729.4	1166.4	1055.9	856.1	768.4	732.6
82.5°	419.1	396.4	476.0	502.0	428.8	666.0	1106.2	990.9	753.7	636.7	607.5
85°	212.8	227.4	318.4	342.7	307.0	529.5	911.3	744.0	544.2	451.6	454.8
87.5°	81.2	108.8	167.3	180.3	164.0	279.4	502.0	433.7	349.2	237.2	219.3
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)