

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: P527298

Luminaire Tested: **GALN-SA2B-740-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527298
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-SA2B-740-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 800mA 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: 9681 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

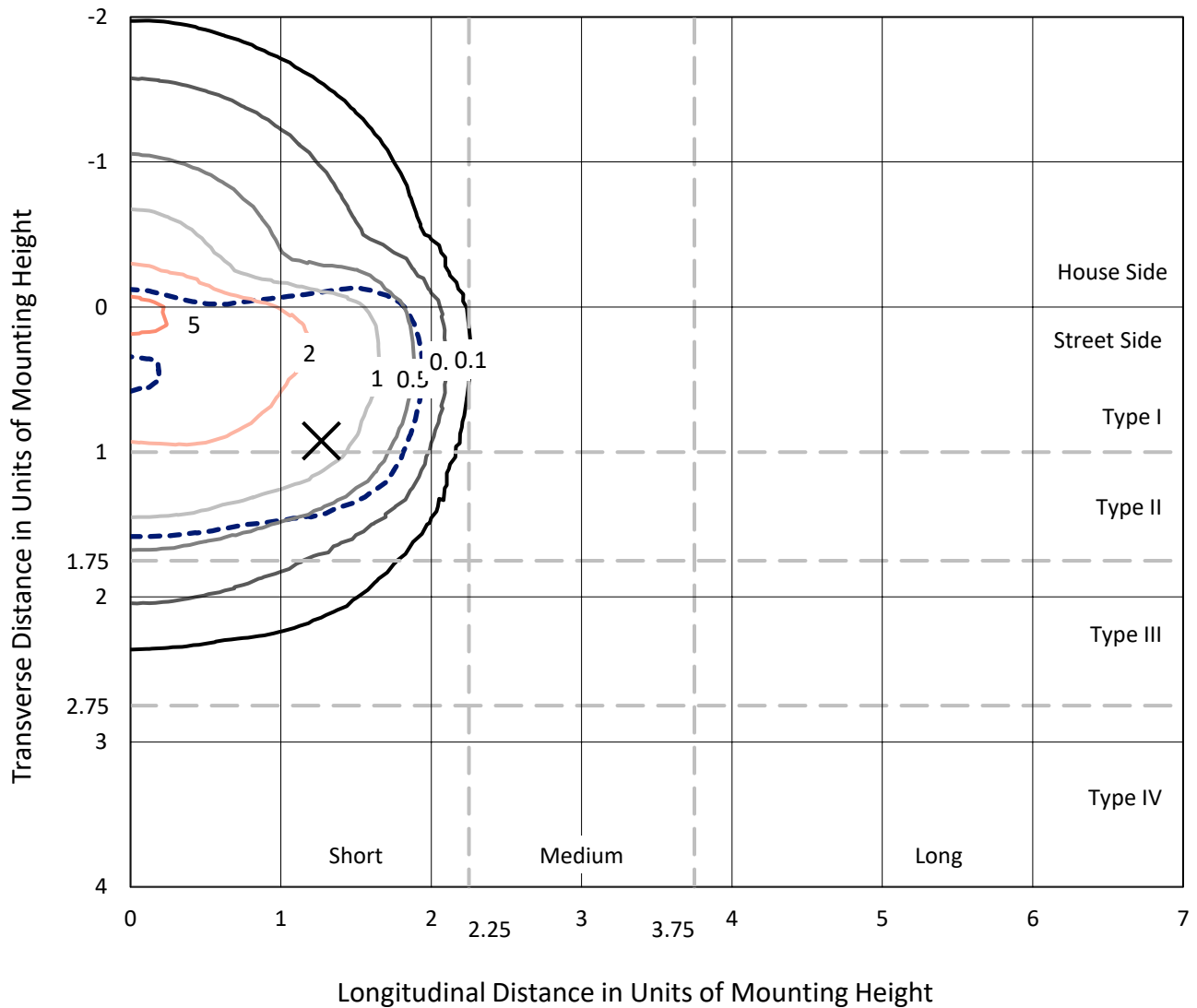
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

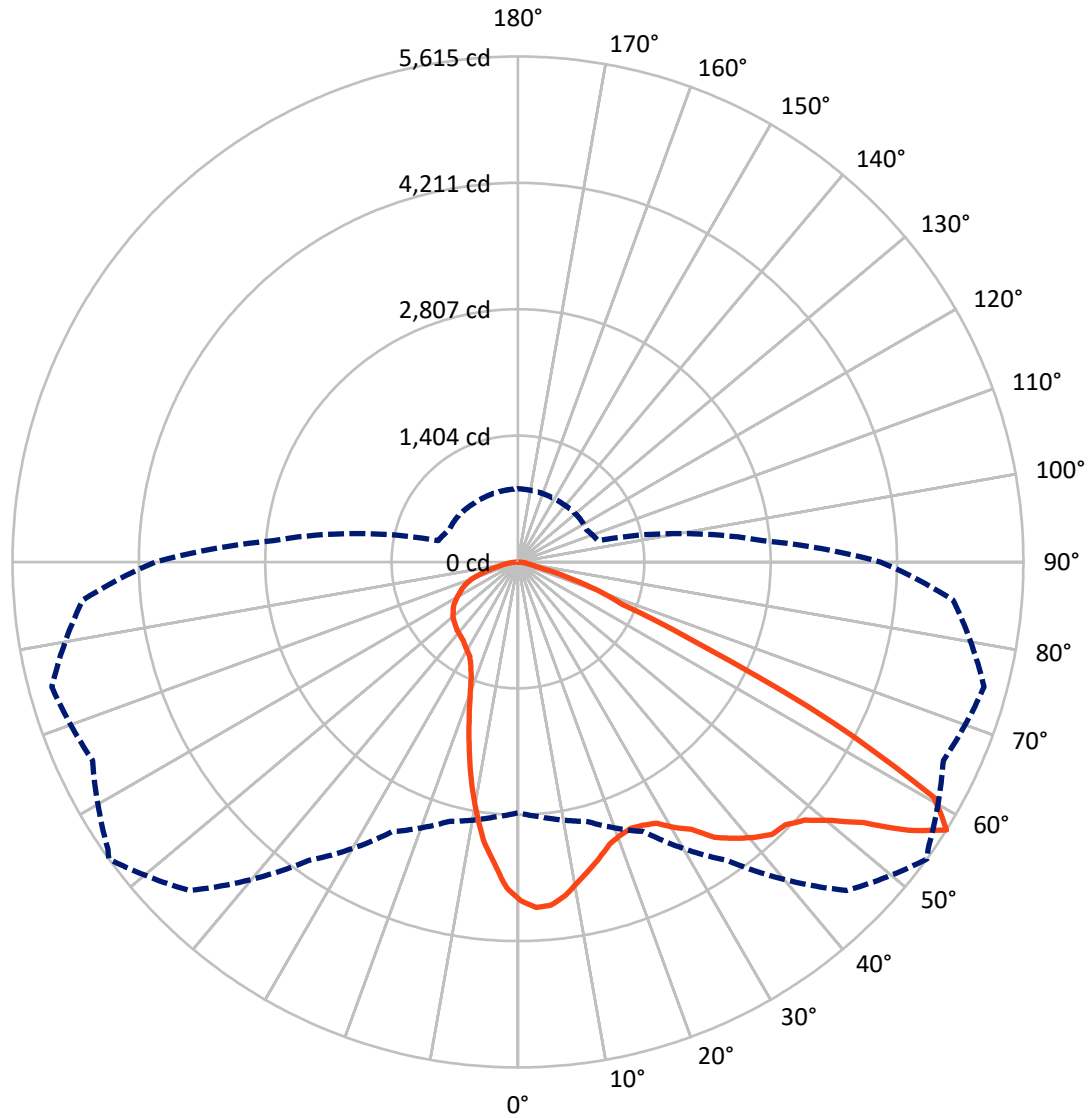
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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	2678.3	0.0	2678.3
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	7002.7	0.0	7002.7
	% Fixture	72.3	0.0	72.3
Total	Lumens	9681.0	0.0	9681.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.5	3.4
10°-20°	751.4	7.8
20°-30°	1055.7	10.9
30°-40°	1475.9	15.2
40°-50°	1998.0	20.6
50°-60°	2433.7	25.1
60°-70°	1267.6	13.1
70°-80°	324.8	3.4
80°-90°	49.5	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°	9681.0	100.0
0°-180°	9681.0	100.0

Coefficient of Utilization



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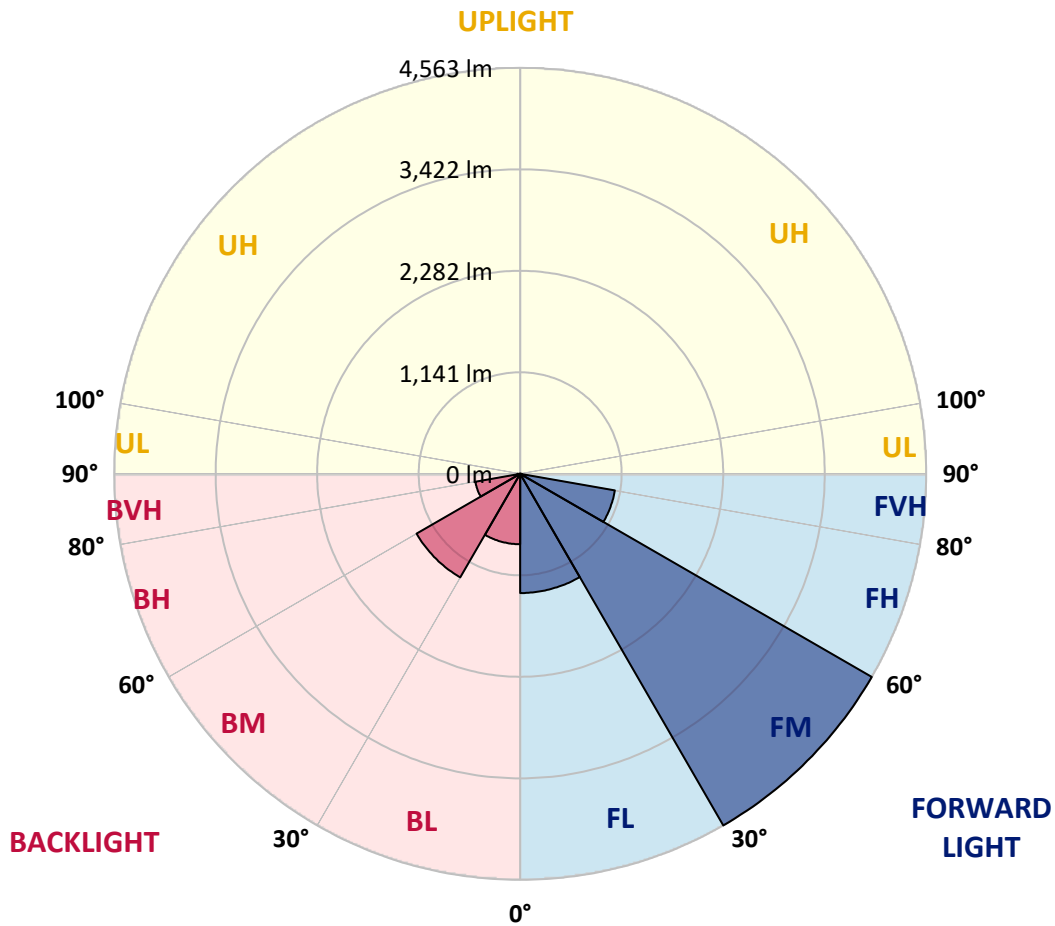
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1340.0	13.8			
FM (30°-60°)	4563.3	47.1			
FH (60°-80°)	1080.7	11.2			G1/1800
FVH (80°-90°)	18.7	0.2			G1/100
BL (0°-30°)	791.6	8.2	B2/1000		
BM (30°-60°)	1344.2	13.9	B2/2500		
BH (60°-80°)	511.7	5.3	B2/1000		G2/1000
BVH (80°-90°)	30.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3762.9	3762.9	3762.9	3762.9	3762.9	3762.9	3762.9	3762.9	3762.9	3762.9	3762.9
2.5°	3869.9	3855.0	3857.5	3877.4	3852.5	3842.5	3842.5	3794.0	3797.7	3764.1	3755.4
5°	3780.3	3745.5	3769.1	3799.0	3804.0	3813.9	3830.1	3817.6	3782.8	3746.7	3688.2
7.5°	3546.4	3577.5	3586.2	3607.4	3652.1	3693.2	3744.2	3709.4	3708.1	3672.1	3637.2
10°	3341.1	3322.4	3369.7	3400.8	3475.5	3543.9	3622.3	3618.6	3637.2	3596.2	3536.4
12.5°	3137.0	3122.1	3144.5	3215.4	3319.9	3419.5	3512.8	3477.9	3577.5	3570.0	3441.9
15°	2920.5	2931.7	2964.0	3030.0	3166.9	3286.3	3404.5	3405.8	3494.1	3524.0	3352.3
17.5°	2768.7	2756.2	2797.3	2895.6	3017.5	3160.6	3295.0	3322.4	3458.0	3475.5	3324.9
20°	2655.4	2672.8	2726.4	2776.1	2916.7	3089.7	3241.5	3251.5	3450.6	3497.8	3281.3
22.5°	2628.1	2618.1	2635.5	2716.4	2832.1	3020.0	3212.9	3250.2	3449.3	3490.4	3199.2
25°	2599.4	2631.8	2630.5	2711.4	2796.0	2964.0	3236.5	3277.6	3515.3	3529.0	3210.4
27.5°	2664.1	2660.4	2695.2	2701.5	2806.0	2979.0	3286.3	3317.4	3624.8	3613.6	3219.1
30°	2728.8	2710.2	2731.3	2804.7	2853.3	3064.8	3423.2	3420.7	3766.6	3759.2	3246.5
32.5°	2808.5	2799.8	2813.5	2878.2	2960.3	3179.3	3538.9	3612.3	3911.0	3958.3	3341.1
35°	2823.4	2859.5	2891.9	2979.0	3095.9	3364.7	3756.7	3817.6	4077.7	4225.8	3521.5
37.5°	2918.0	2931.7	3007.6	3161.9	3268.9	3612.3	3894.8	3933.4	4229.5	4397.5	3711.9
40°	3018.8	3035.0	3149.4	3311.2	3458.0	3774.1	4024.2	4036.6	4278.1	4529.4	3836.3
42.5°	3155.7	3170.6	3283.8	3486.6	3683.3	3912.2	4138.7	4152.4	4274.3	4681.2	4034.2
45°	3297.5	3333.6	3466.7	3696.9	3873.6	4074.0	4164.8	4220.8	4309.2	4816.9	4194.7
47.5°	3496.6	3530.2	3639.7	3864.9	4071.5	4215.8	4285.5	4340.3	4392.5	4935.1	4298.0
50°	3708.1	3714.4	3847.5	4051.6	4203.4	4376.4	4510.7	4529.4	4502.0	5071.9	4473.4
52.5°	3863.7	3883.6	3986.9	4186.0	4412.4	4625.2	4809.4	4829.3	4775.8	5123.0	4533.1
55°	3606.1	3594.9	3762.9	4027.9	4553.1	4996.0	5263.6	5278.5	4974.9	5281.0	4728.5
57.5°	2787.3	2840.8	2983.9	3303.7	4045.4	5160.3	5614.5	5561.0	5213.8	5360.6	4852.9
60°	2025.8	2013.3	2109.2	2323.2	3048.6	4447.3	5308.4	5363.1	5018.4	4831.8	4001.8
62.5°	1650.0	1632.6	1640.0	1647.5	1967.3	2951.6	3929.6	3928.4	3864.9	3473.0	2699.0
65°	1319.0	1360.1	1363.8	1419.8	1460.9	1763.2	2277.1	2399.1	2089.3	1713.5	1243.1
67.5°	994.2	979.3	1029.1	1228.2	1305.3	1273.0	1243.1	1256.8	893.4	644.6	607.2
70°	586.1	579.9	639.6	856.1	1075.1	1011.7	937.0	938.2	613.5	450.5	501.5
72.5°	321.0	319.8	332.2	434.3	611.0	634.6	562.4	579.9	365.8	364.6	392.0
75°	179.2	175.5	171.7	191.6	220.2	232.7	237.7	240.2	251.4	281.2	292.4
77.5°	66.0	63.5	63.5	73.4	93.3	117.0	148.1	150.6	177.9	204.1	215.3
80°	22.4	24.9	33.6	46.0	62.2	83.4	100.8	103.3	125.7	143.1	146.8
82.5°	13.7	14.9	22.4	32.4	44.8	58.5	74.7	75.9	93.3	104.5	109.5
85°	6.2	7.5	12.4	19.9	28.6	38.6	39.8	39.8	38.6	39.8	37.3
87.5°	0.0	0.0	2.5	2.5	2.5	3.7	5.0	3.7	6.2	7.5	7.5
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°	3762.9	3762.9	3762.9	3762.9	3762.9	3762.9	3762.9	3762.9	3762.9	3762.9	3762.9
2.5°	3729.3	3715.6	3673.3	3636.0	3624.8	3575.0	3501.6	3510.3	3456.8	3481.7	3455.5
5°	3678.3	3632.2	3524.0	3477.9	3357.2	3302.5	3265.2	3171.8	3128.3	3119.6	3082.2
7.5°	3547.6	3519.0	3383.4	3258.9	3130.8	3021.3	2880.7	2784.8	2716.4	2697.7	2643.0
10°	3444.3	3380.9	3193.0	3003.8	2820.9	2630.5	2447.6	2304.5	2234.8	2154.0	2126.6
12.5°	3342.3	3246.5	2992.6	2750.0	2513.6	2273.4	2051.9	1877.7	1725.9	1689.8	1677.4
15°	3278.8	3112.1	2813.5	2521.0	2185.1	1871.5	1650.0	1535.5	1442.2	1403.6	1431.0
17.5°	3195.5	3001.4	2641.7	2252.3	1882.7	1594.0	1408.6	1337.7	1304.1	1307.8	1296.6
20°	3090.9	2896.8	2416.5	2008.4	1612.7	1382.5	1276.7	1250.6	1255.5	1264.3	1260.5
22.5°	3016.3	2769.9	2253.5	1759.5	1393.7	1265.5	1221.9	1203.3	1219.5	1226.9	1220.7
25°	2959.0	2661.7	2055.7	1539.3	1266.7	1199.5	1179.6	1178.4	1203.3	1213.2	1207.0
27.5°	2906.8	2560.9	1859.0	1371.3	1182.1	1148.5	1142.3	1157.2	1173.4	1183.4	1192.1
30°	2875.7	2483.7	1674.9	1230.7	1139.8	1123.6	1112.4	1126.1	1134.8	1144.8	1139.8
32.5°	2905.5	2429.0	1496.9	1151.0	1105.0	1088.8	1103.7	1095.0	1110.0	1118.7	1105.0
35°	2998.9	2380.4	1370.0	1108.7	1065.2	1071.4	1073.9	1070.1	1076.4	1068.9	1085.1
37.5°	3090.9	2363.0	1253.1	1072.6	1046.5	1046.5	1044.0	1036.5	1049.0	1046.5	1054.0
40°	3207.9	2374.2	1153.5	1034.0	1029.1	1026.6	1016.6	1015.4	1010.4	1011.7	1014.1
42.5°	3310.0	2399.1	1096.3	1009.2	1012.9	1017.9	999.2	984.3	990.5	978.1	978.1
45°	3418.2	2421.5	1045.2	991.7	988.0	986.8	971.8	963.1	958.1	959.4	970.6
47.5°	3588.7	2453.8	1006.7	968.1	970.6	951.9	948.2	937.0	942.0	949.4	950.7
50°	3709.4	2522.3	976.8	940.7	949.4	937.0	914.6	909.6	909.6	922.1	919.6
52.5°	3794.0	2618.1	948.2	910.9	914.6	904.6	897.2	886.0	878.5	895.9	904.6
55°	4052.8	2777.4	940.7	886.0	884.7	874.8	861.1	849.9	846.2	848.6	866.1
57.5°	4027.9	2727.6	917.1	842.4	839.9	826.2	812.6	808.8	807.6	810.1	815.0
60°	3270.1	2014.6	818.8	792.6	788.9	786.4	772.7	757.8	750.3	757.8	751.6
62.5°	2163.9	1348.9	721.7	732.9	735.4	729.2	706.8	691.9	694.3	703.1	689.4
65°	1062.7	792.6	654.5	684.4	686.9	669.5	648.3	630.9	622.2	629.6	623.4
67.5°	607.2	606.0	599.8	630.9	629.6	612.2	578.6	563.7	548.8	551.2	547.5
70°	515.2	525.1	537.6	556.2	555.0	535.1	495.2	484.0	462.9	460.4	454.2
72.5°	405.7	423.1	450.5	464.1	452.9	428.1	401.9	383.3	364.6	353.4	357.1
75°	301.1	326.0	341.0	349.7	332.2	318.6	297.4	275.0	252.6	242.6	238.9
77.5°	219.0	226.5	240.2	246.4	235.2	221.5	209.0	186.7	165.5	151.8	148.1
80°	153.1	158.0	168.0	168.0	168.0	161.8	145.6	123.2	109.5	97.1	94.6
82.5°	107.0	112.0	121.9	117.0	115.7	108.3	98.3	80.9	66.0	57.2	54.8
85°	37.3	41.1	49.8	59.7	63.5	62.2	56.0	44.8	34.8	28.6	26.1
87.5°	8.7	8.7	10.0	8.7	8.7	10.0	8.7	8.7	8.7	6.2	5.0
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)