

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: P451383

Luminaire Tested: **GALN-SA2B-730-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451383
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2B-730-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10523 lumens
Efficiency: N/A
Efficacy: 128.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

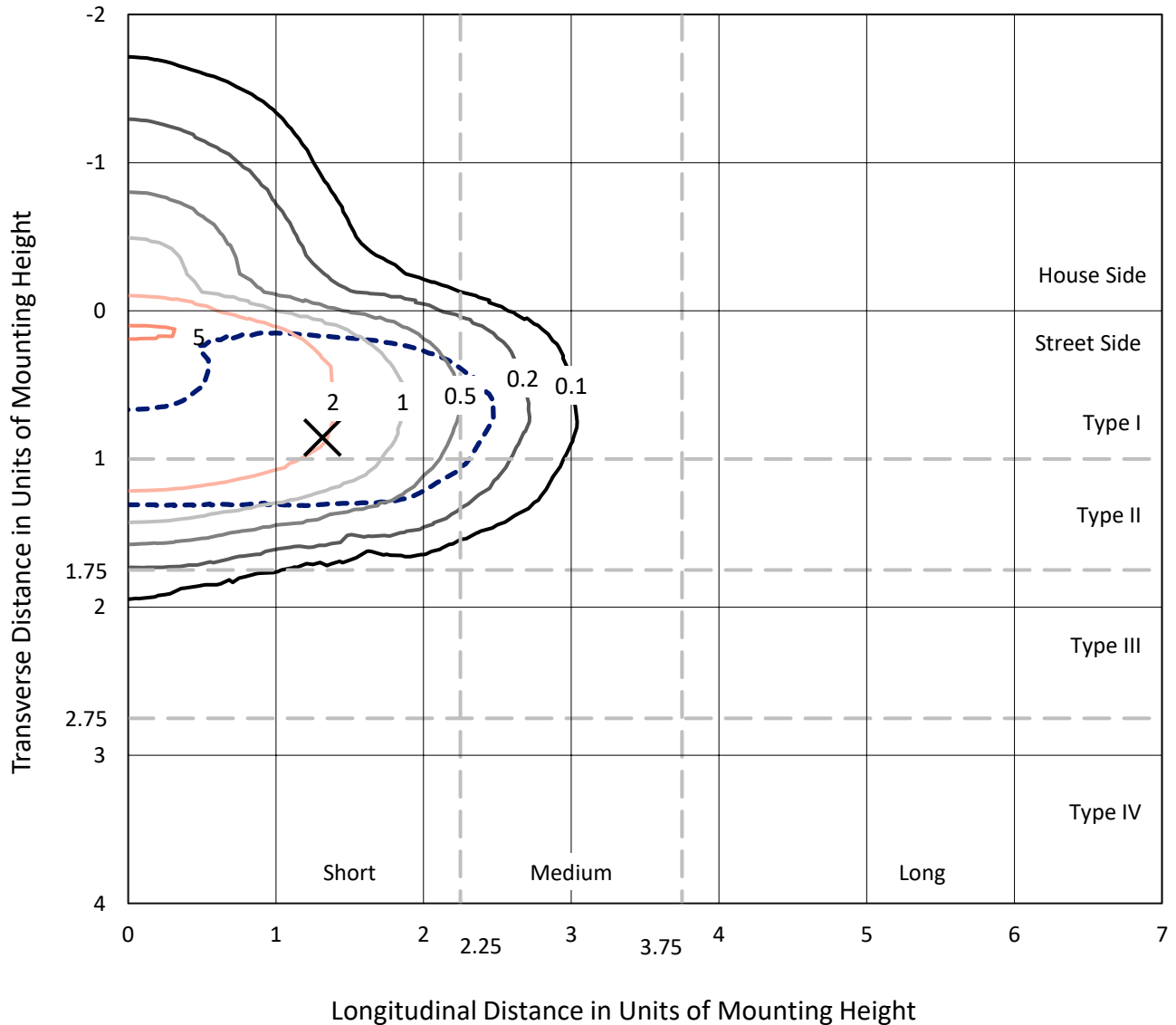
Input Watts (W): 82
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

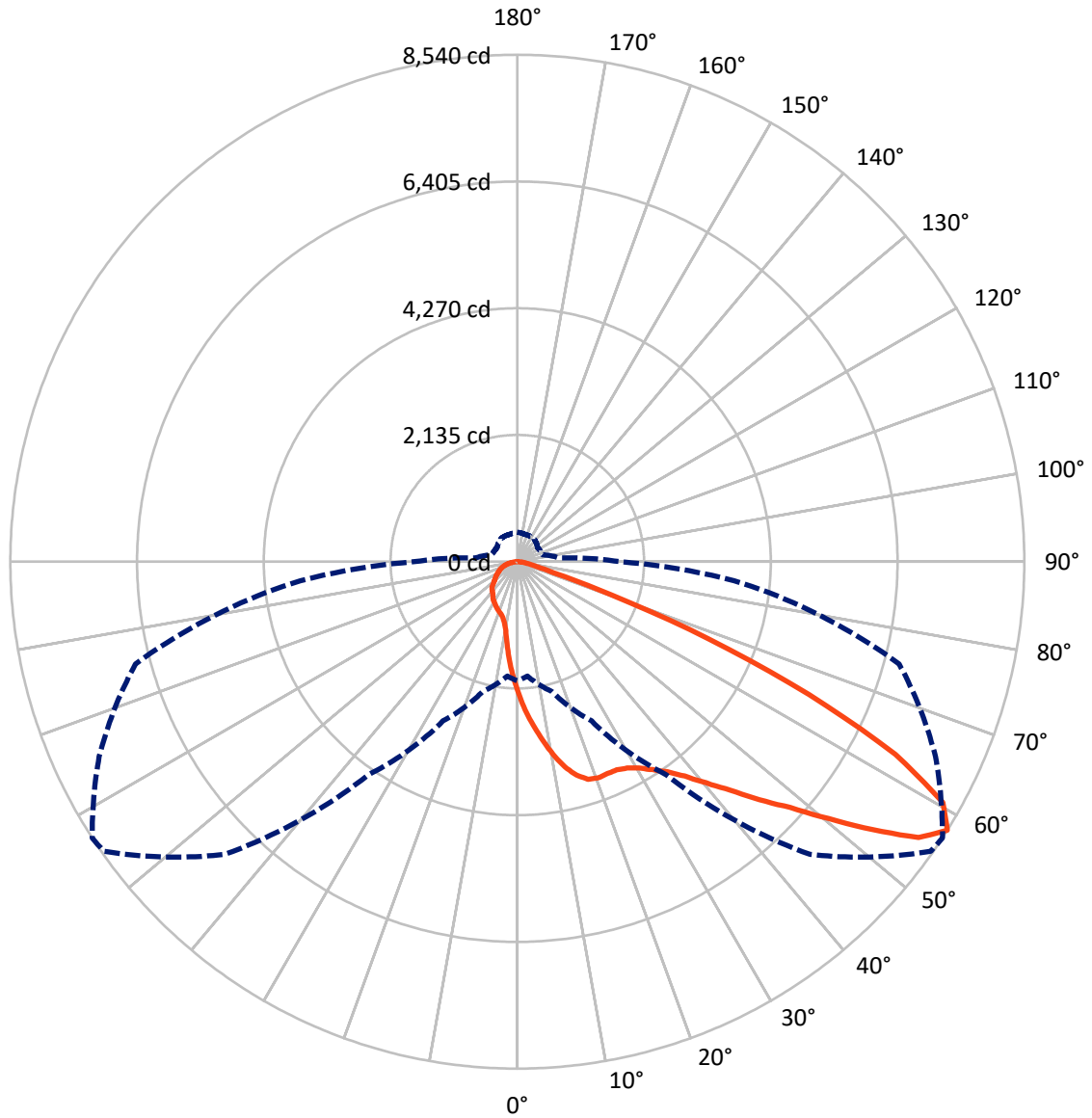
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1600.3	0.0	1600.3
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	8922.7	0.0	8922.7
	% Fixture	84.8	0.0	84.8
Total	Lumens	10523.0	0.0	10523.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.5	2.0
10°-20°	626.2	6.0
20°-30°	1039.8	9.9
30°-40°	1566.2	14.9
40°-50°	2351.5	22.3
50°-60°	2635.8	25.0
60°-70°	1542.6	14.7
70°-80°	456.3	4.3
80°-90°	92.2	0.9
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°	10523.0	100.0
0°-180°	10523.0	100.0

Coefficient of Utilization



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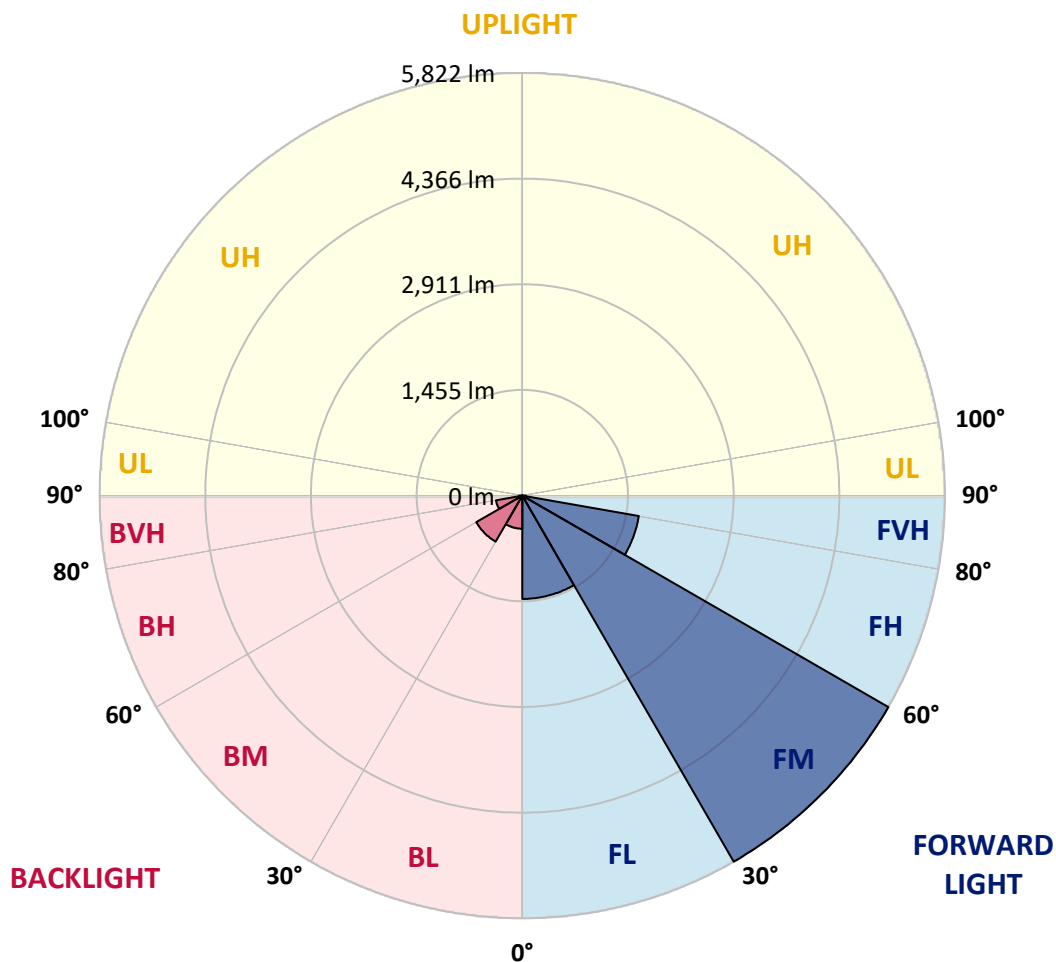
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1422.5	13.5			
FM	(30°-60°)	5821.8	55.3			
FH	(60°-80°)	1630.6	15.5			G1/1800
FVH	(80°-90°)	47.8	0.5			G1/100
BL	(0°-30°)	456.0	4.3	B1/500		
BM	(30°-60°)	731.7	7.0	B1/1000		
BH	(60°-80°)	368.2	3.5	B1/500		G1/500
BVH	(80°-90°)	44.4	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	2210.8	2210.8	2210.8	2210.8	2210.8	2210.8	2210.8	2210.8	2210.8	2210.8	2210.8
2.5°	2747.0	2717.1	2693.5	2672.7	2645.7	2572.5	2499.3	2498.2	2440.0	2350.2	2258.0
5°	3194.6	3154.3	3159.5	3095.0	3030.4	2924.4	2769.5	2761.4	2637.6	2469.4	2298.3
7.5°	3486.1	3486.6	3470.5	3433.7	3364.0	3243.6	3067.9	3028.1	2855.9	2600.7	2344.4
10°	3471.1	3486.6	3513.7	3545.4	3566.7	3507.4	3347.2	3298.9	3074.8	2759.7	2395.7
12.5°	3271.8	3296.0	3334.6	3414.1	3542.5	3640.4	3585.7	3546.6	3328.2	2918.1	2452.1
15°	3147.4	3161.8	3183.1	3236.7	3374.9	3609.3	3751.0	3730.3	3567.3	3097.3	2515.5
17.5°	3109.4	3123.8	3130.7	3163.5	3262.0	3502.2	3816.1	3853.0	3779.3	3262.0	2579.4
20°	3147.4	3154.3	3154.3	3173.9	3251.1	3439.4	3813.2	3887.6	3953.2	3459.6	2639.3
22.5°	3247.0	3249.9	3245.9	3252.8	3310.4	3456.7	3786.2	3878.3	4093.8	3627.2	2686.0
25°	3408.9	3413.5	3387.0	3370.9	3412.9	3532.7	3801.2	3885.8	4203.8	3787.3	2717.1
27.5°	3592.6	3598.4	3566.1	3528.7	3548.3	3626.6	3859.9	3935.9	4286.2	3945.2	2736.7
30°	3817.9	3820.2	3766.0	3721.1	3708.4	3766.6	3960.1	4031.0	4388.7	4131.2	2766.0
32.5°	4048.3	4065.5	3995.8	3932.5	3911.2	3929.0	4108.2	4176.7	4510.8	4331.1	2813.3
35°	4361.6	4364.5	4281.0	4203.8	4133.5	4156.6	4297.7	4347.2	4679.6	4562.1	2880.1
37.5°	4752.7	4779.2	4664.0	4520.0	4433.6	4400.2	4526.9	4581.1	4916.3	4845.5	2980.9
40°	5187.1	5196.8	5098.3	5008.5	4850.7	4753.9	4841.4	4900.2	5208.4	5183.6	3097.8
42.5°	5460.1	5481.4	5488.9	5479.7	5361.0	5198.6	5232.0	5259.6	5554.0	5501.0	3217.6
45°	5552.2	5583.9	5691.1	5918.0	5930.7	5770.6	5692.8	5719.3	5930.7	5821.3	3332.3
47.5°	5399.6	5453.8	5651.3	6116.7	6465.2	6477.3	6242.9	6184.7	6274.0	6086.8	3415.2
50°	5005.0	5016.6	5319.0	5992.9	6715.8	7153.0	6910.5	6802.2	6600.0	6283.2	3472.2
52.5°	4394.5	4407.7	4661.1	5417.5	6561.4	7625.3	7691.6	7498.0	6931.2	6435.9	3509.7
55°	3262.0	3338.6	3617.4	4348.4	5829.9	7581.0	8312.5	8202.5	7331.6	6556.8	3568.4
57.5°	2005.7	1935.4	2266.1	2958.4	4384.7	6971.6	8504.3	8540.1	7772.2	6658.2	3666.9
60°	922.8	936.6	1073.1	1525.9	2672.7	5453.8	8010.1	8235.9	8015.9	6654.8	3691.7
62.5°	635.9	623.3	588.7	669.9	1218.9	3449.2	6765.9	7148.4	7527.4	6448.0	3593.2
65°	568.5	555.9	489.0	466.6	559.9	1503.4	4918.6	5401.3	6337.9	5926.1	3347.8
67.5°	531.1	513.8	444.7	400.9	399.8	598.5	2900.3	3481.5	4700.9	5010.2	2900.8
70°	491.9	478.1	409.5	361.2	340.4	376.1	1274.7	1668.7	3052.3	3610.5	2259.7
72.5°	452.8	436.6	375.0	323.1	296.1	281.7	488.5	635.3	1724.6	2164.7	1385.3
75°	395.7	387.7	335.2	292.6	263.2	227.5	309.9	353.7	824.9	994.2	695.3
77.5°	346.2	337.5	297.8	255.8	234.4	184.9	220.0	240.2	347.9	403.2	313.9
80°	253.4	262.1	251.1	225.8	209.1	145.2	148.0	164.7	206.8	228.7	191.8
82.5°	160.7	176.8	193.5	174.0	158.4	114.6	102.5	108.9	141.1	149.8	85.3
85°	67.4	68.5	112.3	106.0	90.4	68.0	61.6	65.1	75.5	78.9	39.7
87.5°	25.9	25.3	39.7	36.9	28.2	19.6	19.6	21.9	30.0	27.6	12.7
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°	2210.8	2210.8	2210.8	2210.8	2210.8	2210.8	2210.8	2210.8	2210.8	2210.8	2210.8
2.5°	2218.3	2177.4	2096.1	1995.3	1921.6	1838.7	1765.5	1713.1	1693.5	1684.3	1667.0
5°	2216.5	2135.9	1967.7	1791.4	1649.7	1504.6	1381.9	1302.4	1295.5	1242.5	1237.3
7.5°	2217.1	2093.8	1826.0	1566.8	1350.8	1202.2	1100.8	1074.3	1042.6	1034.5	1038.6
10°	2218.8	2040.3	1673.9	1344.4	1135.3	1038.0	1000.0	989.6	990.8	994.2	994.8
12.5°	2221.1	1988.4	1516.1	1175.7	1014.4	974.0	970.0	979.2	989.0	996.5	998.2
15°	2224.0	1929.1	1362.3	1039.7	953.9	950.4	963.7	979.2	993.1	1004.0	1005.7
17.5°	2220.6	1860.0	1233.3	956.2	920.5	937.2	959.1	978.7	991.3	1001.7	1002.8
20°	2212.5	1782.8	1108.8	897.4	899.7	926.8	950.4	968.9	982.7	987.9	991.9
22.5°	2181.4	1690.6	1000.5	851.9	875.0	912.4	940.6	951.6	936.0	925.1	928.0
25°	2128.4	1570.8	899.7	815.1	852.5	892.3	921.1	894.6	881.9	877.3	879.6
27.5°	2062.1	1439.5	823.7	776.5	823.7	869.8	861.7	857.1	851.4	843.9	845.6
30°	1990.7	1311.0	759.2	746.5	792.6	819.1	822.6	830.0	823.7	812.2	816.8
32.5°	1924.5	1190.1	710.2	721.2	770.7	766.7	792.6	801.2	771.9	733.3	735.0
35°	1868.0	1077.7	673.4	696.4	733.3	735.0	760.9	731.0	699.3	680.9	682.0
37.5°	1825.4	990.2	649.2	675.1	685.5	707.4	693.5	678.0	673.9	661.3	661.8
40°	1800.1	913.6	633.6	658.4	656.7	671.6	627.3	642.8	648.6	644.6	645.1
42.5°	1774.7	859.4	617.5	635.3	634.8	605.4	595.6	608.9	623.8	625.6	624.4
45°	1754.6	817.4	600.8	600.2	611.7	565.7	562.8	570.8	592.1	602.5	601.9
47.5°	1732.1	782.2	575.4	559.3	562.8	540.9	536.3	539.7	565.7	582.4	587.0
50°	1703.9	747.1	543.8	521.9	507.5	517.8	519.0	519.6	545.5	564.5	568.5
52.5°	1681.4	720.6	507.5	491.3	474.1	497.1	505.7	506.9	522.4	538.0	540.9
55°	1694.6	705.6	471.8	460.2	444.7	475.8	492.5	494.8	498.3	509.8	511.5
57.5°	1734.4	709.1	443.0	428.0	416.5	450.4	478.7	480.4	478.1	491.9	494.2
60°	1746.5	707.4	421.6	392.3	385.4	423.4	458.5	462.0	461.4	481.6	485.6
62.5°	1695.8	685.5	400.3	362.3	357.7	395.7	430.3	444.1	447.0	475.8	481.0
65°	1576.6	640.5	372.1	330.6	330.6	366.3	403.2	422.2	430.3	468.9	474.6
67.5°	1419.3	587.5	343.3	303.6	302.4	338.1	374.4	394.0	406.7	459.1	462.5
70°	1178.0	516.1	307.6	274.2	274.2	306.4	339.3	362.9	381.3	440.7	440.7
72.5°	807.0	429.1	264.4	240.8	241.4	271.3	304.7	331.2	353.1	403.8	404.9
75°	510.4	335.2	217.2	205.1	207.4	235.6	270.2	297.8	341.6	399.2	400.9
77.5°	271.3	235.6	172.8	169.9	172.8	198.7	237.3	275.3	342.7	346.2	340.4
80°	175.7	167.0	136.5	130.8	131.9	160.1	211.4	261.5	275.3	278.8	266.1
82.5°	95.6	106.0	96.8	91.0	91.0	125.0	180.3	207.9	197.6	164.2	156.7
85°	40.9	49.5	50.1	43.8	42.0	77.2	121.0	113.5	105.4	100.8	99.7
87.5°	11.5	16.1	16.1	12.1	9.2	21.3	24.2	6.9	0.0	0.6	1.2
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)