

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: P522642

Luminaire Tested: **GALN-SA1D-730-U-T4W**

Issue Date: 5/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522642  
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-SA1D-730-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7134 lumens  
Efficiency: N/A  
Efficacy: 109.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

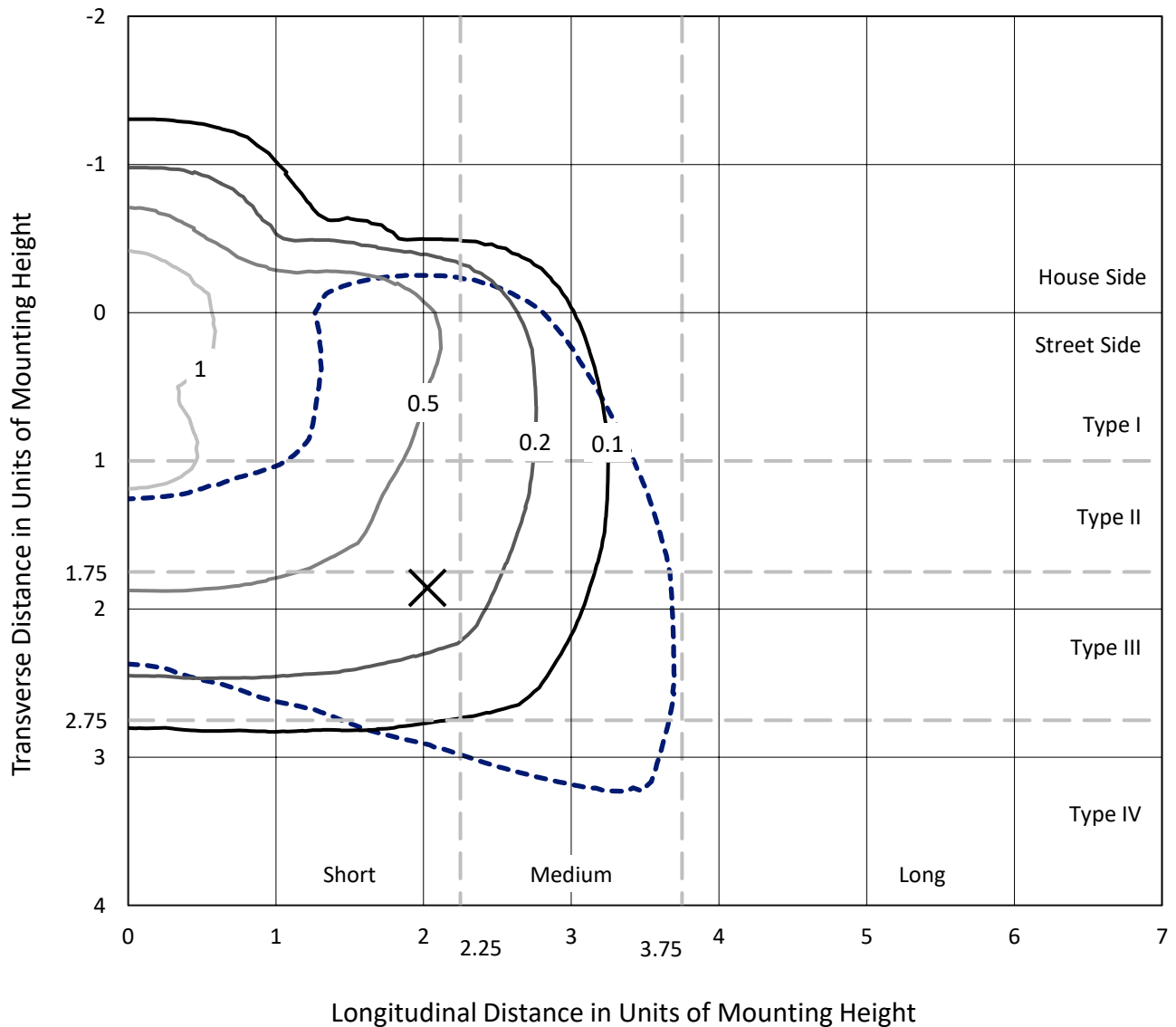
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

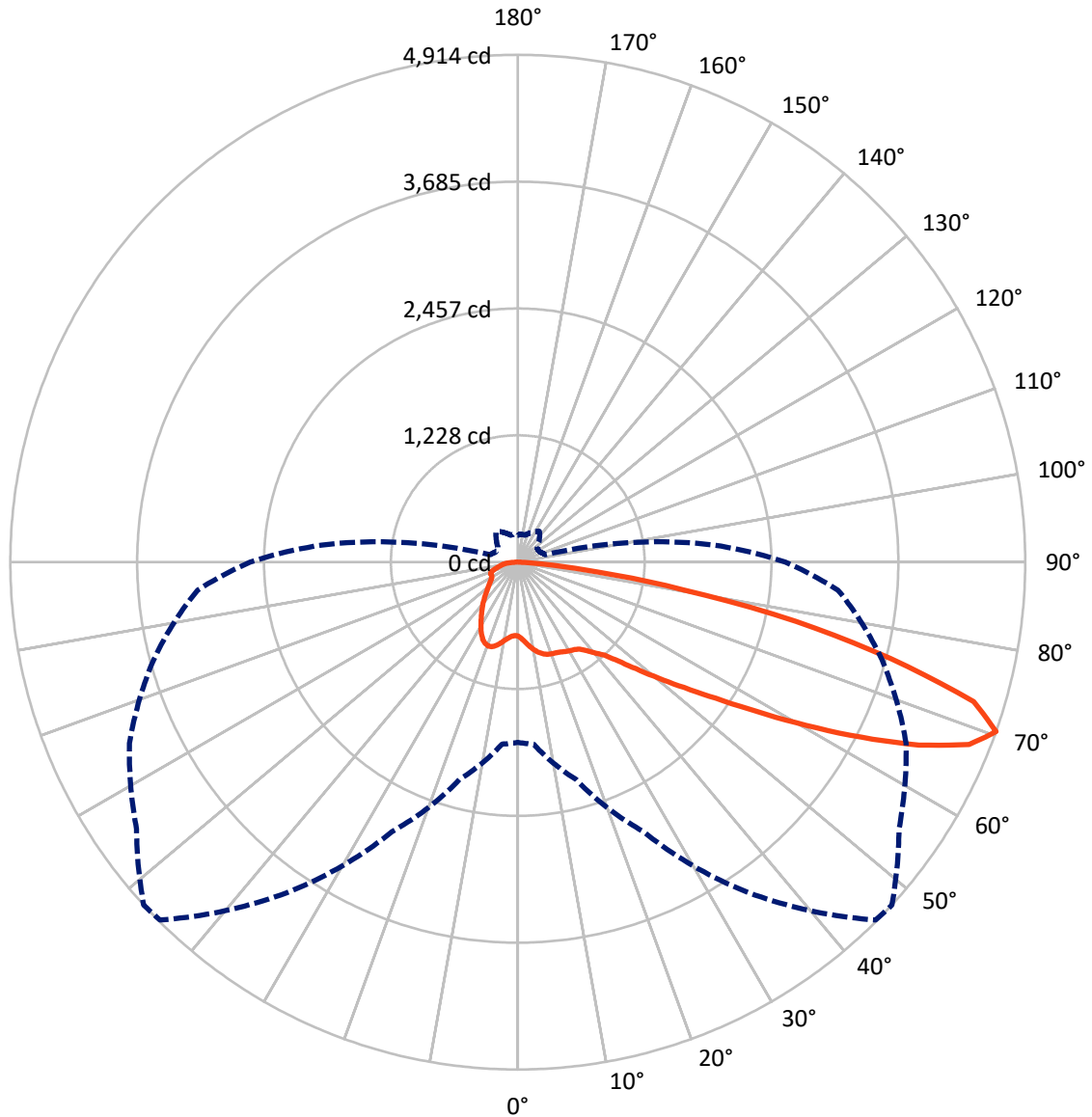
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 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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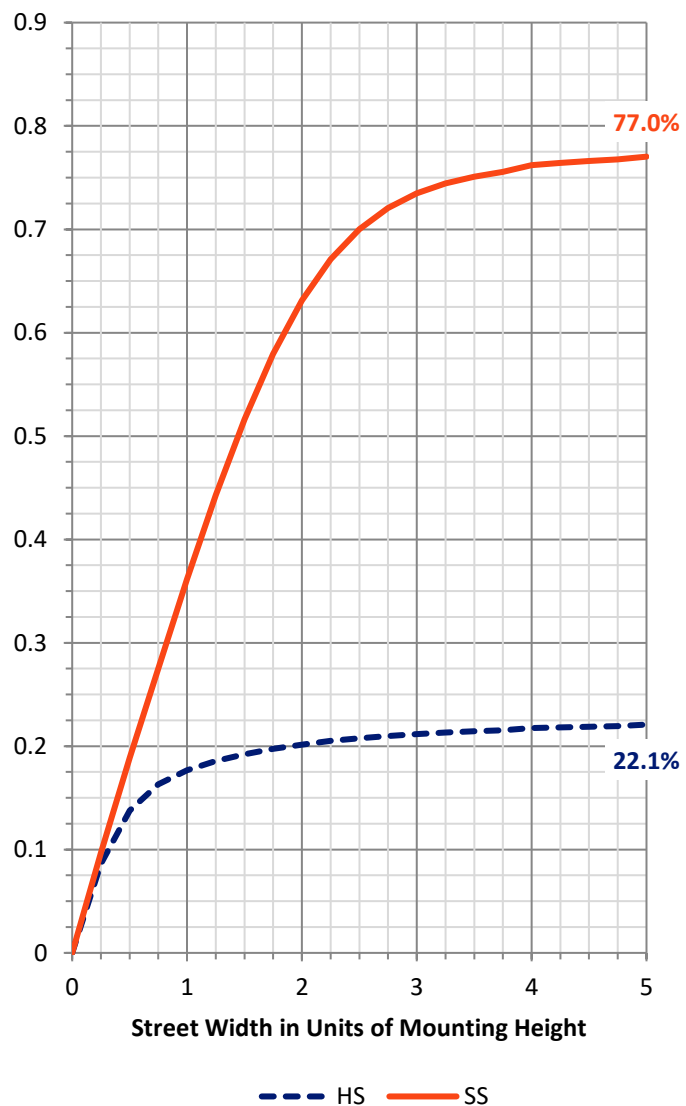
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1615.3	0.0	1615.3
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	5518.7	0.0	5518.7
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	7134.0	0.0	7134.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.8	1.0
10°-20°	246.8	3.5
20°-30°	410.4	5.8
30°-40°	581.7	8.2
40°-50°	858.7	12.0
50°-60°	1487.3	20.8
60°-70°	2100.9	29.4
70°-80°	1207.7	16.9
80°-90°	166.6	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°	7134.0	100.0
0°-180°	7134.0	100.0

**Coefficient of Utilization**



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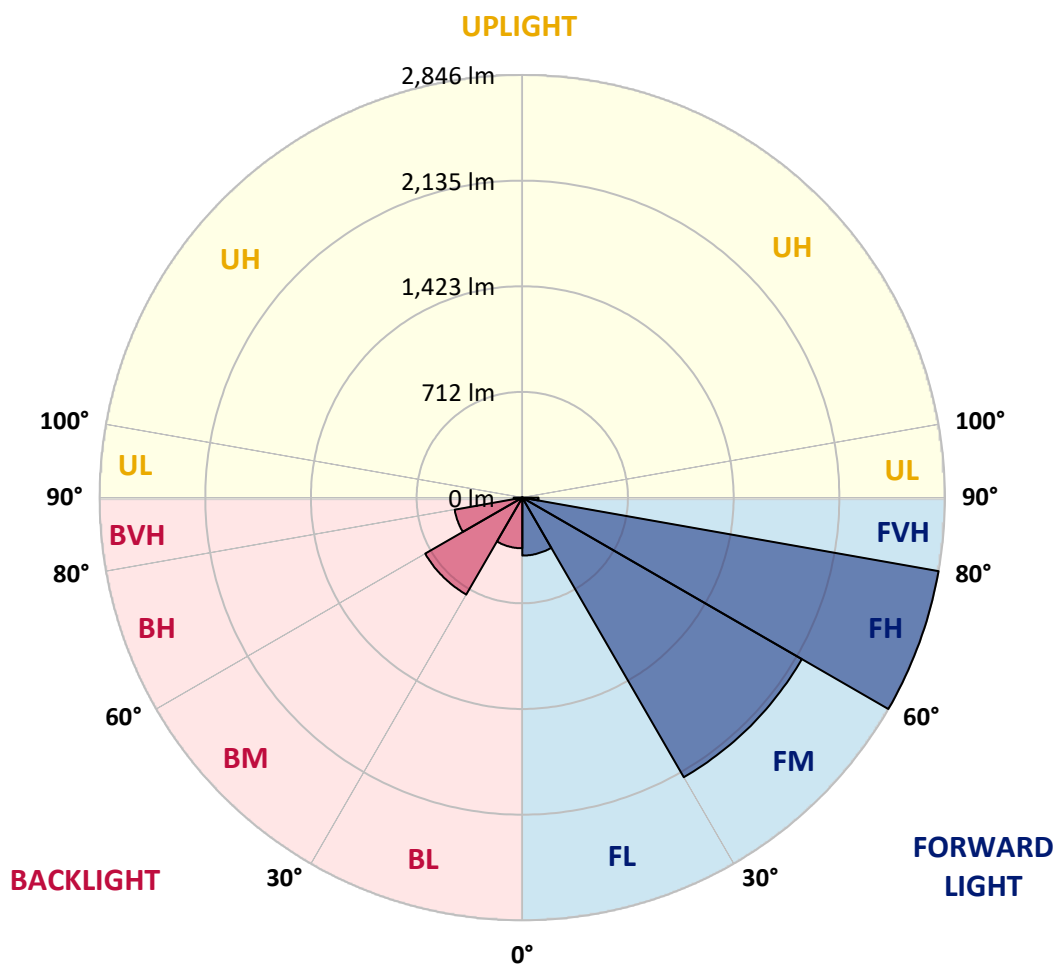
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	390.1	5.5			
FM (30°-60°)	2173.6	30.5			
FH (60°-80°)	2846.2	39.9			G2/5000
FVH (80°-90°)	108.9	1.5			G2/225
BL (0°-30°)	340.9	4.8	B1/500		
BM (30°-60°)	754.1	10.6	B1/1000		
BH (60°-80°)	462.4	6.5	B1/500		G1/500
BVH (80°-90°)	57.8	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	716.2	716.2	716.2	716.2	716.2	716.2	716.2	716.2	716.2	716.2	716.2
2.5°	762.4	759.7	759.3	753.6	750.5	744.8	742.5	737.2	730.7	724.2	718.1
5°	822.3	822.3	819.6	811.6	799.0	786.0	780.3	770.0	751.7	736.8	724.2
7.5°	883.8	884.5	879.2	867.3	849.4	828.4	823.1	807.8	781.8	760.1	741.4
10°	936.8	936.8	929.6	913.5	891.0	868.1	862.8	845.6	816.6	789.5	765.0
12.5°	977.3	977.3	967.7	946.7	922.3	901.7	895.6	879.2	852.1	821.9	791.0
15°	1003.6	1001.7	991.0	967.4	943.7	925.7	921.6	907.8	883.0	852.5	817.7
17.5°	1004.8	1004.0	993.7	973.9	953.2	941.0	938.3	929.2	909.7	880.7	844.1
20°	982.6	984.2	977.3	963.2	953.2	947.9	946.7	943.7	929.9	902.8	866.2
22.5°	959.0	961.6	955.1	947.5	946.7	952.1	952.9	953.6	944.8	918.5	884.9
25°	953.2	955.1	948.7	941.8	946.0	960.1	963.2	966.2	959.3	937.2	907.0
27.5°	982.2	980.7	968.1	953.2	955.9	975.0	979.2	982.6	979.2	960.1	934.5
30°	1064.3	1059.4	1034.2	990.6	976.9	990.3	994.5	1004.0	1004.0	989.9	964.3
32.5°	1201.8	1192.2	1146.0	1060.5	1012.8	1004.8	1009.0	1024.6	1032.6	1021.6	993.7
35°	1368.6	1358.7	1292.6	1177.7	1078.5	1033.8	1032.6	1050.2	1071.6	1046.8	1010.5
37.5°	1536.2	1525.9	1446.5	1317.4	1174.3	1094.9	1088.0	1094.1	1103.3	1057.8	1033.8
40°	1703.8	1691.5	1622.1	1473.6	1291.5	1175.8	1157.9	1130.4	1126.6	1094.1	1078.8
42.5°	1869.8	1858.8	1823.6	1648.8	1432.0	1254.8	1227.3	1180.0	1194.5	1175.0	1161.7
45°	2037.4	2038.2	2000.8	1845.4	1601.5	1400.7	1363.6	1289.6	1323.9	1316.7	1324.3
47.5°	2185.9	2184.0	2170.6	2036.3	1811.8	1588.5	1540.8	1454.9	1513.6	1540.4	1598.8
50°	2329.8	2328.7	2329.5	2252.7	2056.1	1811.8	1759.1	1669.0	1801.5	1894.3	1998.9
52.5°	2536.0	2542.5	2496.3	2476.0	2353.1	2075.6	2017.6	1924.4	2141.6	2287.8	2492.1
55°	2742.9	2737.5	2701.3	2722.3	2663.9	2387.9	2327.2	2253.1	2520.3	2680.3	2987.2
57.5°	2864.7	2866.6	2903.6	3006.3	3047.5	2777.2	2722.3	2665.0	2946.0	3059.4	3427.8
60°	2974.2	2983.0	3089.5	3283.5	3395.3	3255.6	3206.7	3151.0	3336.5	3381.6	3810.3
62.5°	3008.6	3035.7	3221.6	3511.7	3734.3	3795.4	3734.7	3611.8	3708.3	3690.8	4069.5
65°	2837.2	2874.2	3207.5	3597.3	4037.0	4307.7	4269.1	4040.9	4025.2	3919.5	4111.9
67.5°	2386.0	2423.0	2850.9	3417.8	4162.2	4751.3	4712.7	4353.9	4217.6	3940.8	3791.2
70°	1745.8	1769.0	2178.3	2877.7	3910.7	4900.2	4913.5	4506.6	4148.9	3650.3	3112.8
72.5°	1005.9	1057.5	1344.2	2024.4	3194.9	4523.8	4616.5	4189.0	3714.5	3045.2	2176.4
75°	432.5	433.7	621.5	1116.6	2163.8	3636.2	3725.9	3472.4	2917.0	2105.7	1162.1
77.5°	205.8	209.6	273.3	498.6	1191.1	2512.3	2754.3	2453.1	1865.6	1011.6	439.0
80°	133.6	136.3	167.2	247.4	584.1	1456.8	1625.5	1415.2	823.1	361.5	189.3
82.5°	80.9	81.7	111.9	151.2	321.4	659.7	777.6	614.2	351.2	216.5	111.5
85°	49.2	49.6	68.0	93.5	195.1	227.9	234.0	232.1	206.1	141.6	59.6
87.5°	23.7	24.4	35.1	44.3	76.7	70.6	66.8	77.5	97.3	76.4	25.6
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°	716.2	716.2	716.2	716.2	716.2	716.2	716.2	716.2	716.2	716.2	716.2
2.5°	715.4	714.3	711.6	710.4	709.7	710.1	709.7	709.7	710.1	710.1	710.1
5°	718.8	716.9	712.7	712.7	715.0	720.4	725.3	729.1	733.3	733.0	733.0
7.5°	733.7	730.3	725.3	726.9	732.6	741.0	749.8	758.2	766.6	767.3	766.9
10°	755.5	752.1	746.7	748.6	757.8	770.4	781.4	793.7	802.8	805.5	804.7
12.5°	780.3	773.4	768.8	774.2	788.7	805.5	816.2	825.3	831.8	835.7	834.1
15°	805.5	799.0	793.7	804.7	822.3	837.9	843.3	844.8	846.0	849.8	849.0
17.5°	829.9	821.1	819.2	833.7	850.5	857.4	854.4	847.9	842.9	846.0	845.6
20°	851.7	844.8	844.1	858.6	865.1	858.6	845.6	834.1	825.3	826.1	825.7
22.5°	872.3	867.0	867.7	873.8	863.5	841.4	820.0	804.4	794.8	796.7	797.9
25°	895.2	889.9	891.8	881.8	847.9	809.3	778.4	765.0	761.2	765.0	767.7
27.5°	925.0	921.6	920.4	882.2	820.0	762.0	726.9	721.9	725.3	733.7	737.9
30°	957.1	957.1	950.9	875.7	781.8	705.1	674.6	675.3	687.2	699.0	703.2
32.5°	988.0	994.5	975.4	858.2	732.6	649.7	626.5	627.2	637.5	652.0	655.9
35°	1013.6	1032.3	996.4	826.1	674.6	603.2	585.6	575.3	575.7	586.8	589.8
37.5°	1048.7	1083.4	1008.6	778.4	612.7	563.5	543.6	525.7	513.8	509.3	509.3
40°	1109.8	1160.9	1011.6	707.8	554.3	525.7	497.4	476.0	453.1	432.5	428.7
42.5°	1213.2	1277.7	1005.5	626.5	501.6	484.1	456.6	430.2	398.5	369.5	367.2
45°	1396.5	1429.7	989.1	542.1	454.7	444.0	417.3	388.6	355.0	329.1	327.2
47.5°	1690.0	1643.1	967.4	467.3	411.9	408.9	388.2	355.0	321.4	303.5	301.6
50°	2118.7	1979.0	964.3	413.1	377.6	379.1	362.3	331.7	302.3	287.5	285.2
52.5°	2634.9	2384.8	984.5	374.9	347.4	353.1	344.7	316.5	290.5	277.9	275.6
55°	3135.7	2749.8	996.8	345.1	319.1	329.8	331.0	307.3	283.6	271.0	269.5
57.5°	3542.3	3024.6	942.5	318.0	294.7	311.1	319.5	302.0	280.2	270.7	269.1
60°	3825.2	3154.4	788.3	293.9	276.8	296.2	315.3	302.3	288.6	289.8	290.5
62.5°	3915.3	3096.8	591.3	276.0	264.6	291.3	322.2	318.0	303.9	312.7	314.2
65°	3766.0	2858.6	428.7	261.9	253.9	294.7	342.8	329.5	298.5	305.0	305.0
67.5°	3266.3	2462.7	333.7	248.9	241.6	301.2	363.4	328.3	285.9	293.6	286.7
70°	2591.0	1904.9	277.9	234.4	228.7	291.7	365.3	316.5	271.0	272.6	259.6
72.5°	1719.4	1252.5	239.0	220.7	208.8	262.3	349.7	301.2	256.5	247.8	234.8
75°	842.5	624.5	208.4	203.5	182.9	228.3	328.3	286.7	240.9	227.1	219.9
77.5°	326.4	265.7	177.9	181.7	159.2	201.2	300.1	266.1	220.3	201.6	195.8
80°	158.4	150.8	145.8	151.6	130.9	171.4	274.1	248.1	201.2	180.6	172.2
82.5°	98.5	93.1	111.9	118.0	100.8	156.5	260.0	232.9	177.1	149.6	142.8
85°	50.0	53.4	74.8	80.5	72.2	124.5	214.2	174.8	127.9	106.1	106.9
87.5°	19.1	25.6	39.3	42.4	38.6	65.7	118.0	101.9	82.1	55.7	51.5
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)